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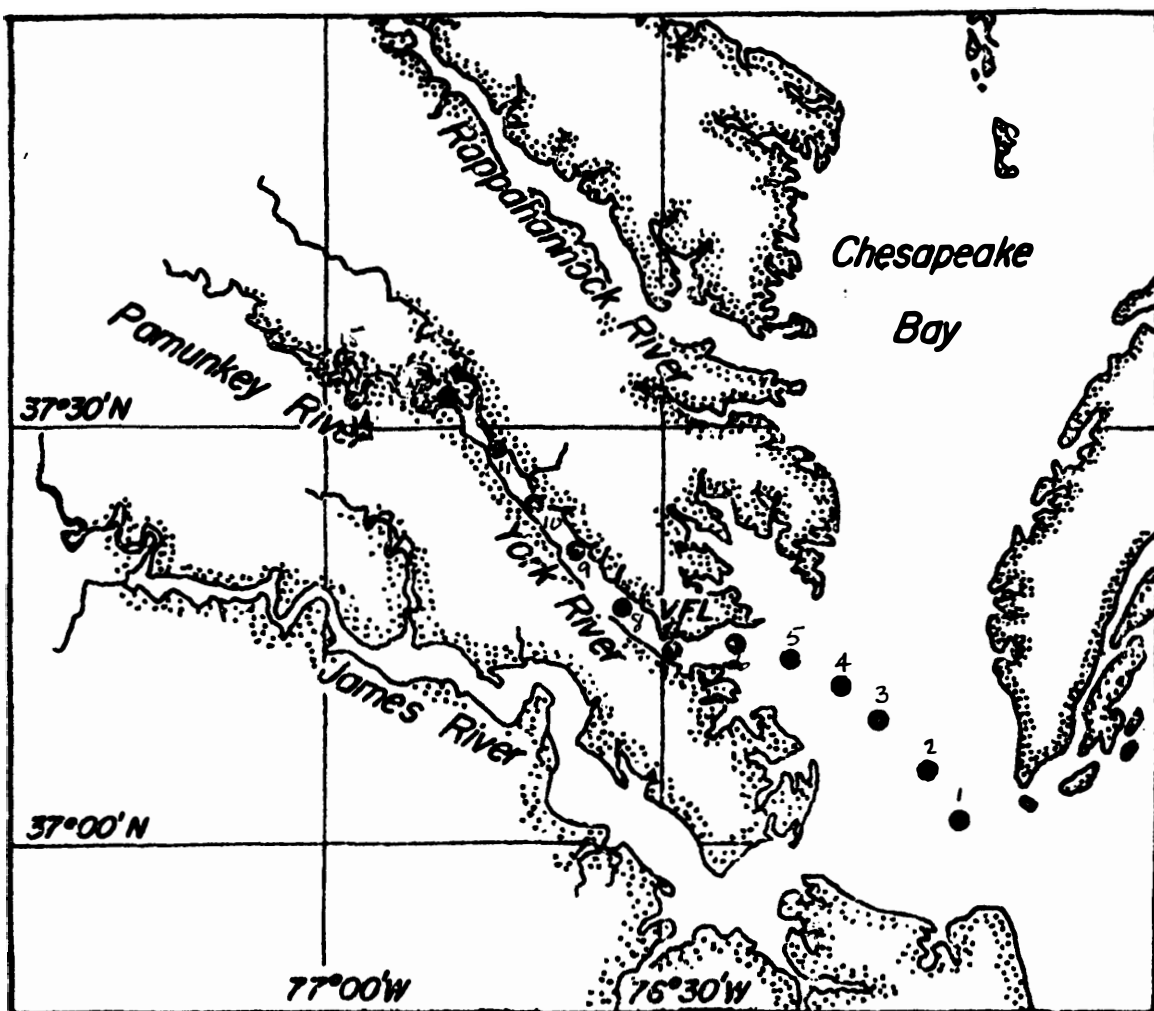


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**WATER TEMPERATURES, SALINITIES, AND FISHES COLLECTED
DURING TRAWL SURVEYS OF CHESAPEAKE BAY AND
YORK AND PAMUNKEY RIVERS, 1956 - 1959**

VIRGINIA INSTITUTE OF MARINE SCIENCE

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1962

WATER TEMPERATURES, SALINITIES, AND FISHES COLLECTED DURING
TRAWL SURVEYS OF CHESAPEAKE BAY AND YORK AND PAMUNKEY RIVERS
1956 - 1959

To obtain information on the distribution and relative abundance of fishes in an estuary, a series of trawl surveys was made between April 1956 and November 1959. Collections were made at 16 stations located at intervals of approximately 5 miles, from salt water near the mouth of Chesapeake Bay to fresh water at Lester Manor on the Pamunkey River. Beginning at the mouth of the Bay, stations (shown on front cover) were numbered serially from 1 to 16. Stations 1 to 4 have been termed Bay stations; 5-8, lower York River; 9-12, upper York River; and 13-16, Pamunkey River. Water depths and station locations are presented in Table 1.

Cruises were generally made during the second or third week of each month. Thirty-four cruises were completed (Table 2). On three of the cruises some stations were not occupied. From April 1956 to May 1957 cruises were made with the R/V Virginia Lee. In January 1957 stations 13 to 16 were not occupied because of ice in the river. In August 1957 surveys were greatly facilitated when the R/V Pathfinder was put into full operation.

From April 1956 to October 1957 surface and bottom water temperatures were obtained with a reversing thermometer or directly from water taken by Kemerer sampler. After this period a thermistor was used (Tables 3 and 4). Salinities from surface and bottom (Tables 5 and 6) were, unless otherwise specified, determined by titration with silver nitrate and corrected from Knudsen's (1901) tables.

Trawling was done with a 30-foot, semi-balloon shrimp trawl having 1-inch (stretch measure) mesh in the wings and body and 3/4-inch mesh in the cod end. All tows were made at approximately 3 knots in the same direction as tidal currents. Trawling was done for 15 minutes at Bay and York River stations. In the Pamunkey River, however, numerous snags and quantities of organic debris were present. In this area hauls were made for 7 1/2 minutes and the counts of fishes in each haul were doubled. Fishes were identified and counted and subsamples were measured. For tabulation, samples from stations 1-4, 5-8, 9-12, and 13-16 have been pooled.

Over 400,000 fishes belonging to 96 different species have been captured. Table 7 lists the fishes captured with the season and area in which they were taken. Table 8 lists the numbers of individuals of the different fishes trawled on each cruise. The trawl is an effective sampling device for demersal species only. Some forms are confined to shallow water or occur principally at mid-depths and may be expected rarely, if at all, from trawl hauls. Most estuarine species, however, are primarily bottom-dwelling forms.

Data from these surveys have contributed substantially to publications on weakfish (Massmann et al., 1958), croaker (Massmann and Pacheco, 1960), and spot (Pacheco, in press) and have formed the basis for predictions of future abundance for croaker, weakfish, spot and striped bass. It is anticipated that more detailed analyses of the distributions and size compositions of the fishes will be presented later.

Many individuals have contributed substantially to these surveys, especially J. W. Whitcomb, C. E. Richards, A. L. Pacheco, F. J. Wojcik, E. B. Joseph, J. J. Norcross, S. Wilson, and G. Clemmer.

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W. H. Massmann
January 1962

Table 1. Station numbers, locations and depths for trawl cruises in Chesapeake Bay, York and Pamunkey rivers from April 1956 to November 1959.

Station Number	Mean Depth (feet)	N. Lat.		W. Long.	
		°	'	°	'
1	50	37	01	76	03
2	45		04		06
3	40		08		11
4	35		10		15
5	35		13		18
6	60		15		22
7	50		14		27
8	30		19		36
9	35		23		39
10	25		26		42
11	30		28		44
12	25		32		50
13	30		34		51
14	30		33		53
15	25		32		58
16	25		35		59

Table 2. Cruises made during Chesapeake Bay, York and Pamunkey river trawl surveys 1956-1959.

Month	Year			
	1956	1957	1958	1959
January	-	<u>/1</u>	x	-
February	-	x	x	-
March	-	x	x	-
April	x	-	x	x
May	x	<u>/2</u>	x	-
June	-	-	x	x
July	x	<u>/3</u>	x	x
August	x	x	x	x
September	x	x	x	x
October	x	x	x	x
November	x	x	x	x
December	x	x	x	-

x Cruise completed.
/1 Stations 1-12 occupied.
/2 Stations 5-16 occupied.
/3 Stations 1-4 occupied.

Table 3. Surface water temperatures in degrees C. obtained during Chesapeake Bay, York and Pamunkey river trawl surveys April 1956 to November 1959.

Station	1956					
	Jan.	Feb.	Mar.	Apr.	May	June
1	-	-	-	10.0	-	-
2	-	-	-	10.0	18.0	-
3	-	-	-	10.0	18.0	-
4	-	-	-	10.0	18.0	-
5	-	-	-	10.4	18.4	-
6	-	-	-	-	19.0	-
7	-	-	-	11.4	20.0	-
8	-	-	-	12.4	20.0	-
9	-	-	-	12.8	20.4	-
10	-	-	-	12.8	21.0	-
11	-	-	-	13.0	21.0	-
12	-	-	-	12.0	21.8	-
13	-	-	-	12.8	22.2	-
14	-	-	-	12.8	22.0	-
15	-	-	-	13.0	22.2	-
16	-	-	-	13.2	22.0	-

Station	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	28.0	27.0	25.4	18.0	14.0	10.0
2	27.9	27.2	25.4	18.0	14.0	10.0
3	28.0	27.8	26.2	18.0	13.8	9.6
4	27.8	27.0	26.0	18.0	14.0	9.6
5	26.0	26.2	22.2	17.8	14.0	9.0
6	26.2	26.2	24.0	17.8	14.0	9.0
7	26.8	26.0	24.4	18.0	13.0	9.0
8	29.0	26.0	24.4	18.0	13.0	9.6
9	26.8	25.2	23.0	18.2	13.0	9.2
10	26.8	25.4	23.0	18.2	14.0	9.8
11	27.2	26.0	23.0	18.2	14.0	9.4
12	29.6	26.0	24.2	18.0	13.4	9.0
13	29.8	27.0	24.0	18.2	14.0	9.0
14	26.7	27.0	23.8	18.2	14.0	8.8
15	25.9	26.0	23.0	18.4	12.4	9.0
16	24.0	25.6	22.2	19.0	12.0	8.8

Surface water temperatures (continued).

Station	1957					
	Jan.	Feb.	Mar.	Apr.	May	June
1	5.2	5.8	8.0	-	-	-
2	5.2	5.5	8.0	-	-	-
3	4.6	5.0	8.2	-	-	-
4	4.8	6.0	8.0	-	-	-
5	5.0	4.6	6.8	-	19.6	-
6	4.8	-	7.2	-	20.2	-
7	5.2	6.0	8.0	-	22.0	-
8	5.4	6.2	9.0	-	21.5	-
9	3.6	6.0	10.8	-	21.5	-
10	3.4	7.0	10.0	-	22.0	-
11	3.0	7.0	11.9	-	23.8	-
12	2.8	6.8	9.6	-	23.8	-
13	-	6.8	9.4	-	23.0	-
14	-	6.8	10.0	-	24.8	-
15	-	7.0	11.0	-	23.0	-
16	-	6.0	11.0	-	24.4	-

Station	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.0	24.0	24.2	17.8	14.0	9.6
2	28.0	24.0	24.2	17.6	14.0	9.0
3	27.0	24.0	24.2	17.6	14.2	8.9
4	27.0	24.0	25.0	17.6	13.0	8.9
5	-	24.8	24.0	17.0	13.2	8.0
6	-	23.8	24.2	17.0	13.6	8.0
7	-	24.8	25.0	17.0	13.6	8.0
8	-	24.8	25.2	16.0	13.8	7.8
9	-	24.0	24.2	17.0	13.5	5.0
10	-	24.0	24.0	17.0	13.5	4.6
11	-	24.0	24.0	18.0	14.0	5.0
12	-	25.0	24.0	17.5	13.5	4.0
13	-	24.2	23.0	16.0	13.0	4.6
14	-	24.0	23.2	15.5	13.0	4.0
15	-	24.0	23.2	14.5	12.8	2.8
16	-	24.0	23.0	14.0	13.1	2.5

Surface water temperatures (continued).

Station	1958					
	Jan.	Feb.	Mar.	Apr.	May	June
1	5.0	3.0	4.8	11.0	20.4	21.5
2	4.4	3.0	4.8	11.0	20.0	22.0
3	4.0	2.0	4.0	11.0	19.0	23.0
4	4.0	1.2	4.6	11.2	19.7	22.5
5	4.0	1.0	4.5	11.8	20.6	23.0
6	3.9	1.0	6.0	13.0	20.8	23.5
7	4.0	1.0	7.0	13.0	20.6	23.0
8	4.0	1.8	6.8	13.0	21.0	23.0
9	4.0	2.0	6.2	13.0	21.0	23.5
10	4.0	1.6	6.2	13.0	21.0	23.9
11	3.8	1.0	6.8	13.0	21.2	24.7
12	3.2	2.0	6.8	13.5	21.0	25.0
13	3.2	2.5	6.8	13.2	21.0	25.0
14	2.6	1.0	6.6	13.0	21.5	25.0
15	2.8	1.0	6.6	13.8	22.0	25.3
16	1.2	1.0	6.2	13.8	22.3	25.0

Station	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	23.8	26.4	24.2	17.4	13.3	4.2
2	23.8	26.8	24.2	17.5	13.2	4.2
3	22.0	27.0	24.0	17.6	13.2	4.1
4	26.0	27.4	23.6	17.6	13.2	4.3
5	26.2	27.0	23.8	17.8	13.0	3.8
6	26.5	27.6	23.2	18.1	13.2	3.6
7	26.0	27.8	24.0	18.3	13.3	3.9
8	26.5	28.8	24.0	18.9	12.6	2.8
9	27.2	29.0	24.0	19.2	12.9	2.5
10	28.0	28.5	24.0	19.1	12.5	2.2
11	28.2	28.8	24.0	18.5	12.7	2.2
12	28.5	28.5	23.8	18.8	12.5	2.6
13	28.8	28.8	24.6	18.4	12.4	2.3
14	28.8	28.6	24.0	18.5	12.1	2.0
15	28.6	28.9	23.8	18.2	11.7	0.9
16	28.6	28.8	23.5	18.1	10.9	0.5

Surface water temperatures (continued).

Station	1959					
	Jan.	Feb.	Mar.	Apr.	May	June
1	-	-	-	10.7	-	22.5
2	-	-	-	10.6	-	23.6
3	-	-	-	11.5	-	23.1
4	-	-	-	11.8	-	23.3
5	-	-	-	11.4	-	23.3
6	-	-	-	12.4	-	23.3
7	-	-	-	12.2	-	23.3
8	-	-	-	15.6	-	23.6
9	-	-	-	15.1	-	25.0
10	-	-	-	15.5	-	24.9
11	-	-	-	15.6	-	26.0
12	-	-	-	15.2	-	25.9
13	-	-	-	15.3	-	25.4
14	-	-	-	15.7	-	25.7
15	-	-	-	16.2	-	26.0
16	-	-	-	16.8	-	25.8

Station	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	23.7	25.1	26.1	23.1	11.2	-
2	24.2	25.1	26.3	23.1	11.3	-
3	25.1	25.7	27.4	23.2	10.9	-
4	25.0	25.5	28.0	23.2	11.2	-
5	24.9	25.8	27.2	22.9	10.5	-
6	25.8	27.4	27.2	23.1	10.7	-
7	25.7	26.6	27.3	22.9	10.6	-
8	25.4	27.5	27.5	22.8	10.5	-
9	25.4	27.7	27.6	22.3	10.0	-
10	25.6	28.1	28.1	22.1	10.0	-
11	25.5	27.9	28.5	22.0	10.0	-
12	26.0	27.8	28.4	22.5	10.4	-
13	26.0	27.7	28.1	21.7	10.3	-
14	25.8	27.5	28.0	21.3	10.1	-
15	24.9	27.5	27.5	21.2	9.3	-
16	24.3	27.4	27.3	20.2	9.0	-

Table 4. Bottom water temperatures in degrees C. obtained during Chesapeake Bay, York and Pamunkey river trawl surveys April 1956 to November 1959.

Station	1956					
	Jan.	Feb.	Mar.	Apr.	May	June
1	-	-	-	-	-	-
2	-	-	-	-	17.6	-
3	-	-	-	-	18.0	-
4	-	-	-	-	17.4	-
5	-	-	-	-	17.6	-
6	-	-	-	-	18.0	-
7	-	-	-	-	19.0	-
8	-	-	-	-	19.0	-
9	-	-	-	-	19.8	-
10	-	-	-	-	20.0	-
11	-	-	-	-	20.6	-
12	-	-	-	-	21.0	-
13	-	-	-	-	22.0	-
14	-	-	-	-	22.0	-
15	-	-	-	-	22.2	-
16	-	-	-	-	22.0	-

Station	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	22.0	22.0	25.4	17.8	14.0	11.0
2	22.0	23.0	25.2	17.8	14.0	11.0
3	22.6	24.0	25.0	17.8	13.0	10.0
4	23.0	26.0	25.0	18.0	13.0	9.8
5	24.8	25.0	22.0	17.8	15.0	9.8
6	24.8	25.0	23.8	17.8	15.0	9.0
7	26.0	24.4	24.0	18.0	15.8	10.0
8	26.0	25.0	24.0	18.0	15.0	9.8
9	25.8	24.8	23.0	18.0	15.0	9.8
10	26.4	25.2	23.0	18.0	14.0	10.0
11	26.9	26.0	23.0	18.0	14.0	9.8
12	27.4	26.0	23.0	18.0	13.4	9.0
13	28.0	26.4	23.0	18.0	14.4	9.0
14	26.7	26.0	23.0	18.0	15.0	9.0
15	25.2	26.0	23.0	18.2	13.0	9.0
16	24.0	25.4	22.0	18.6	12.0	9.0

Bottom water temperatures (continued).

Station	1957					
	Jan.	Feb.	Mar.	Apr.	May	June
1	-	5.4	7.5	-	-	-
2	-	5.4	7.5	-	-	-
3	4.8	-	7.0	-	-	-
4	-	6.0	7.0	-	-	-
5	-	4.8	6.8	-	18.0	-
6	-	-	7.0	-	19.2	-
7	5.0	5.0	7.4	-	19.6	-
8	5.2	5.8	8.0	-	21.0	-
9	1.4	-	9.0	-	20.0	-
10	1.0	6.0	9.8	-	20.5	-
11	0.0	6.0	9.0	-	21.2	-
12	0.6	6.0	9.0	-	22.0	-
13	-	-	10.0	-	22.4	-
14	-	7.0	10.0	-	23.0	-
15	-	6.8	11.0	-	23.2	-
16	-	6.0	11.0	-	23.2	-

Station	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	21.0	23.4	24.0	17.8	14.0	-
2	21.6	24.0	24.0	17.6	14.0	-
3	23.4	24.0	24.0	17.8	14.0	-
4	23.6	24.0	24.6	18.0	13.8	-
5	-	23.4	24.0	17.0	13.0	8.8
6	-	23.8	24.0	17.0	13.0	8.1
7	-	24.0	24.8	17.2	13.2	8.9
8	-	24.0	25.0	17.0	13.8	8.0
9	-	24.0	24.0	17.5	13.5	7.0
10	-	24.8	24.2	17.2	13.5	5.8
11	-	24.0	24.2	17.2	13.8	5.2
12	-	24.6	24.0	17.0	13.8	5.0
13	-	24.2	23.0	16.0	13.0	4.8
14	-	24.0	23.0	15.2	13.0	4.0
15	-	23.8	23.0	14.5	12.8	3.2
16	-	23.6	22.0	14.0	13.1	2.5

Bottom water temperatures (continued).

Station	1958					
	Jan.	Feb.	Mar.	Apr.	May	June
1	4.2	3.5	4.6	9.2	15.4	18.2
2	4.9	3.5	4.6	9.2	16.0	19.0
3	4.0	2.8	4.2	8.8	16.5	20.0
4	4.0	2.0	4.4	8.4	17.5	20.5
5	3.4	2.8	4.5	8.8	16.0	20.7
6	3.1	2.0	5.5	9.9	16.0	21.0
7	3.4	2.0	5.8	10.5	17.0	21.8
8	3.0	2.5	5.8	11.0	19.0	22.5
9	3.2	2.5	6.0	11.0	18.8	22.8
10	3.2	2.0	6.0	11.0	20.4	23.0
11	3.0	2.0	6.5	12.8	21.0	23.5
12	3.0	2.5	6.8	12.8	21.0	24.7
13	2.9	2.5	6.8	13.0	20.9	24.8
14	2.0	1.5	6.8	13.0	21.2	25.0
15	2.0	1.0	6.8	13.8	22.0	25.0
16	2.0	1.0	6.8	13.5	22.0	24.8

Station	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.5	21.0	23.0	17.3	13.3	4.4
2	19.2	21.6	23.2	17.3	13.2	4.1
3	23.0	22.5	23.2	17.5	13.2	4.1
4	26.5	24.0	23.2	17.6	13.2	4.4
5	23.0	23.0	23.2	17.6	13.0	3.8
6	25.0	23.0	23.2	18.1	13.2	3.6
7	22.5	24.2	23.4	18.3	13.6	4.3
8	25.0	26.0	23.4	18.4	12.8	4.3
9	25.0	26.5	23.0	18.6	12.7	2.8
10	26.0	27.0	23.4	18.4	12.4	2.2
11	26.5	27.2	23.5	18.4	12.2	2.0
12	28.0	28.0	23.5	18.4	12.4	2.5
13	28.2	28.8	24.2	18.4	12.5	2.8
14	28.2	28.6	23.5	18.3	13.0	2.6
15	28.2	28.6	23.6	18.2	11.6	0.9
16	28.2	28.8	23.5	18.1	10.9	0.8

Bottom water temperatures (continued).

Station	1959					
	Jan.	Feb.	Mar.	Apr.	May	June
1	-	-	-	9.8	-	22.1
2	-	-	-	9.8	-	21.4
3	-	-	-	10.3	-	21.4
4	-	-	-	10.3	-	21.6
5	-	-	-	10.7	-	22.3
6	-	-	-	11.1	-	22.9
7	-	-	-	11.0	-	22.9
8	-	-	-	12.0	-	23.0
9	-	-	-	12.8	-	24.0
10	-	-	-	13.8	-	24.4
11	-	-	-	14.3	-	23.7
12	-	-	-	14.8	-	24.8
13	-	-	-	15.2	-	24.5
14	-	-	-	15.4	-	25.1
15	-	-	-	15.9	-	25.2
16	-	-	-	16.5	-	25.8

Station	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	22.1	24.4	26.0	23.0	11.8	-
2	21.7	24.5	26.3	23.0	11.5	-
3	24.5	24.4	26.3	23.2	11.3	-
4	24.7	24.5	26.5	23.1	11.1	-
5	24.4	25.4	27.3	22.1	11.4	-
6	25.2	25.1	27.1	23.5	10.5	-
7	25.7	25.2	27.3	23.7	10.8	-
8	25.5	25.7	27.0	22.9	10.7	-
9	25.3	26.0	27.3	23.0	10.8	-
10	25.5	26.3	27.3	22.6	10.7	-
11	25.3	26.7	27.5	22.2	9.7	-
12	26.0	27.7	27.7	22.8	10.1	-
13	26.0	27.3	27.5	21.7	10.3	-
14	25.6	27.2	28.0	21.3	10.1	-
15	24.9	27.3	27.5	21.2	9.3	-
16	24.2	27.4	27.2	20.3	9.1	-

Table 5. Surface salinities in ‰ obtained during Chesapeake Bay, York and Pamunkey river trawl surveys April 1956 to November 1959.

Station	1956					
	Jan.	Feb.	Mar.	Apr.	May	June
1	-	-	-	-	21.8	-
2	-	-	-	-	22.8	-
3	-	-	-	-	19.5	-
4	-	-	-	-	19.1	-
5	-	-	-	-	19.9	-
6	-	-	-	-	21.1	-
7	-	-	-	-	17.1	-
8	-	-	-	-	15.8	-
9	-	-	-	-	10.8	-
10	-	-	-	-	-	-
11	-	-	-	-	-	-
12	-	-	-	-	6.2	-
13	-	-	-	-	0.4	-
14	-	-	-	-	0.4	-
15	-	-	-	-	0.4	-
16	-	-	-	-	0.5	-

Station	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	22.8	20.5	25.8	22.9	23.9	25.3
2	20.1	20.6	25.5	23.8	24.0	24.9
3	20.3	20.1	23.9	21.9	22.5	23.7
4	20.4	19.7	21.5	21.6	21.9	23.1
5	20.4	19.7	-	21.4	18.4	20.5
6	19.7	20.3	21.0	18.6	18.1	20.2
7	18.4	20.6	20.6	20.2	14.0	17.4
8	14.1	20.1	19.9	19.0	11.3	15.4
9	11.6	18.5	16.2	16.5	9.9	11.3
10	6.5	17.5	13.8	16.8	7.4	9.3
11	8.2	16.5	12.1	16.3	5.3	7.1
12	1.3	11.4	5.3	12.1	1.3	1.5
13	0.1	5.0	2.0	7.5	0.8	0.3
14	0.1	0.4	0.9	3.0	0.2	0.2
15	0.1	0.1	0.3	1.2	0.4	0.3
16	0.1	0.1	0.3	0.9	0.2	0.4

Surface salinities (continued).

Station	1957					
	Jan.	Feb.	Mar.	Apr.	May	June
1	25.1	21.9	22.1	-	-	-
2	25.8	22.1	19.6	-	-	-
3	23.5	18.2	18.2	-	-	-
4	21.8	17.4	18.9	-	-	-
5	21.6	18.4	17.5	-	19.1	-
6	20.8	18.2	16.3	-	18.4	-
7	18.6	16.0	16.3	-	18.4	-
8	18.3	13.7	10.3	-	16.9	-
9	17.9	13.7	12.6	-	14.0	-
10	16.7	10.6	9.7	-	12.4	-
11	15.4	7.4	6.5	-	10.3	-
12	10.1	3.5	0.9	-	5.1	-
13	-	1.8	0.3	-	0.7	-
14	-	0.3	0.3	-	0.2	-
15	-	0.3	0.1	-	0.2	-
16	-	0.3	-	-	0.2	-

Station	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	25.1	28.9	27.5	24.5	29.6	28.9
2	22.2	27.3	29.9	27.7	30.0	28.0
3	22.2	23.3	27.2	23.0	27.6	26.8
4	22.5	21.9	25.1	23.1	25.8	25.1
5	-	22.6	24.9	23.0	25.2	23.1
6	-	21.4	24.2	21.2	23.7	21.9
7	-	22.5	23.5	19.8	24.6	19.3
8	-	20.7	21.9	17.2	19.4	19.7
9	-	19.7	17.9	16.8	17.0	-
10	-	18.2	18.1	14.3	16.5	18.6
11	-	17.5	17.5	11.9	13.1	6.9
12	-	14.9	12.9	1.7	10.3	2.9
13	-	3.1	3.8	0.6	2.8	0.3
14	-	1.3	2.0	0.4	1.1	0.3
15	-	0.9	1.1	0.4	0.4	0.3
16	-	0.8	0.8	0.3	0.1	0.3

Surface salinities (continued).

Station	1958					
	Jan.	Feb.	Mar.	Apr.	May	June
1	23.6	25.8	23.9	15.9	16.0	21.2
2	24.6	26.6	23.0	15.4	16.1	20.3
3	22.8	24.7	18.8	17.6	16.0	15.8
4	22.4	21.6	19.1	15.0	15.6	15.2
5	22.5	21.2	-	16.1	14.5	16.7
6	21.4	19.3	17.9	14.5	14.0	16.5
7	20.2	15.9	17.5	12.9	14.4	16.3
8	19.0	16.6	14.4	13.1	10.4	15.8
9	14.9	7.8	9.0	9.0	8.0	13.5
10	12.3	5.8	6.0	8.1	7.2	12.0
11	11.9	5.5	4.0	5.3	5.1	10.8
12	3.1	0.6	0.4	2.9	0.9	5.9
13	1.0	0.7	0.4	0.4	0.3	0.3
14	0.2	0.7	0.3	0.3	0.4	0.3
15	0.2	0.3	0.4	0.2	0.4	0.3
16	0.1	0.3	0.3	0.2	0.3	0.3

Station	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	24.1	22.7	22.1	29.1	24.9	24.7
2	24.4	21.4	21.7	28.6	25.4	24.4
3	19.7	18.4	21.6	22.1	22.6	23.7
4	20.0	17.9	21.2	21.6	21.6	22.5
5	18.8	17.4	21.4	-	21.4	21.7
6	20.9	17.5	20.9	21.1	21.4	21.2
7	20.5	18.6	19.8	-	22.1	20.3
8	19.5	17.2	17.9	18.2	17.7	17.7
9	16.5	15.3	15.4	15.6	15.8	16.3
10	15.4	14.9	12.5	17.9	12.8	14.0
11	13.5	13.5	12.1	13.8	11.5	10.4
12	8.5	12.2	5.5	4.0	9.7	2.2
13	0.9	4.4	5.8	1.0	2.2	0.4
14	0.3	0.4	1.5	0.7	0.2	0.2
15	0.3	0.3	0.2	0.5	0.0	0.2
16	0.3	0.3	0.1	0.0	0.1	0.2

Surface salinities (continued)

Station	1959					
	Jan.	Feb.	Mar.	Apr.	May	June ^{/1}
1	-	-	-	19.6	-	23.9
2	-	-	-	20.0	-	22.7
3	-	-	-	18.6	-	22.1
4	-	-	-	18.6	-	21.3
5	-	-	-	20.9	-	21.3
6	-	-	-	20.4	-	20.4
7	-	-	-	19.7	-	21.0
8	-	-	-	13.3	-	20.5
9	-	-	-	11.0	-	18.3
10	-	-	-	9.2	-	16.7
11	-	-	-	8.1	-	14.4
12	-	-	-	2.7	-	10.8
13	-	-	-	0.2	-	7.1
14	-	-	-	0.0	-	-
15	-	-	-	0.0	-	-
16	-	-	-	0.0	-	0.2

Station	Jul. ^{/2}	Aug. ^{/1}	Sept. ^{/1}	Oct. ^{/1}	Nov. ^{/1}	Dec.
1	28.6	23.9	31.0	29.1	26.9	-
2	25.9	23.9	29.5	29.4	27.4	-
3	22.7	22.1	24.0	27.8	24.7	-
4	22.6	22.5	23.7	26.3	24.3	-
5	21.2	23.1	24.0	26.4	23.3	-
6	20.3	22.1	24.4	25.6	23.0	-
7	20.7	21.6	22.7	25.2	22.0	-
8	17.3	18.8	19.1	23.7	20.3	-
9	14.6	17.0	17.1	20.6	16.5	-
10	11.9	15.3	14.6	17.8	14.9	-
11	9.4	14.1	12.9	15.6	12.4	-
12	2.1	8.8	5.5	8.0	6.6	-
13	0.1	1.8	1.6	-	3.1	-
14	0.1	0.6	0.8	-	0.4	-
15	0.1	0.4	0.2	-	0.1	-
16	0.1	0.2	0.2	-	0.1	-

^{/1} Stations 1-12 determinations by salinometer corrected for temperature.

^{/2} Determinations by Amico-Cotlove automatic Chloride titrator.

Table 6. Bottom salinities in ‰ obtained during Chesapeake Bay, York and Pamunkey river trawl surveys April 1956 to November 1959.

Station	1956					
	Jan.	Feb.	Mar.	Apr.	May	June
1	-	-	-	28.4	26.2	-
2	-	-	-	28.4	23.5	-
3	-	-	-	24.0	17.6	-
4	-	-	-	19.7	21.8	-
5	-	-	-	23.2	20.7	-
6	-	-	-	22.5	20.2	-
7	-	-	-	20.0	17.0	-
8	-	-	-	17.4	16.5	-
9	-	-	-	16.3	13.0	-
10	-	-	-	14.7	11.5	-
11	-	-	-	11.5	10.3	-
12	-	-	-	6.7	6.4	-
13	-	-	-	1.8	0.3	-
14	-	-	-	0.2	0.4	-
15	-	-	-	0.2	0.4	-
16	-	-	-	0.2	0.4	-

Station	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.8	30.7	27.5	30.1	25.1	29.8
2	28.2	30.0	27.0	30.1	26.5	29.4
3	26.6	29.2	24.7	30.1	23.2	25.4
4	25.8	27.3	24.7	27.0	22.3	24.2
5	23.0	26.3	20.9	23.8	26.0	24.5
6	24.6	20.6	20.9	20.9	23.3	24.8
7	20.3	24.8	20.7	21.2	21.9	24.0
8	20.6	23.1	20.0	19.3	20.7	21.0
9	17.5	21.7	18.0	18.1	18.6	18.8
10	16.5	20.5	15.6	16.5	13.5	15.4
11	12.1	18.5	14.5	16.7	10.6	13.3
12	2.7	12.1	6.7	12.0	2.2	2.6
13	0.1	5.6	2.0	7.0	1.7	0.8
14	0.1	0.5	1.0	3.1	0.4	0.4
15	0.2	0.1	0.3	1.0	0.2	0.3
16	0.1	0.1	0.3	0.8	0.2	0.4

Bottom salinities (continued)

Station	1957					
	Jan.	Feb.	Mar.	Apr.	May	June
1	31.2	24.4	28.2	-	-	-
2	27.8	23.7	22.1	-	-	-
3	23.1	28.7	25.8	-	-	-
4	22.3	28.8	26.1	-	-	-
5	22.8	25.6	26.5	-	21.8	-
6	23.0	24.4	27.3	-	20.0	-
7	24.0	27.2	21.1	-	19.0	-
8	20.3	19.8	20.4	-	17.4	-
9	19.0	18.2	17.2	-	16.3	-
10	16.5	15.1	12.4	-	13.8	-
11	14.9	12.6	9.7	-	11.9	-
12	9.6	4.2	1.8	-	7.4	-
13	-	2.0	0.1	-	0.6	-
14	-	0.2	0.1	-	0.3	-
15	-	0.3	0.1	-	0.2	-
16	-	0.2	-	-	0.2	-

Station	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	32.4	31.9	28.7	31.5	29.7	-
2	31.8	31.2	28.7	27.9	29.1	-
3	29.6	28.7	27.2	28.4	27.6	-
4	29.6	26.7	24.9	27.3	27.4	-
5	-	26.8	25.8	23.0	27.1	25.3
6	-	24.0	25.6	22.8	24.8	25.3
7	-	22.8	23.8	22.4	24.2	23.2
8	-	21.1	22.5	20.9	20.3	22.6
9	-	19.8	20.2	19.8	18.0	19.8
10	-	18.4	18.4	18.9	17.5	16.6
11	-	17.5	18.1	14.9	14.9	7.2
12	-	13.8	12.9	2.0	10.1	0.8
13	-	3.3	4.2	0.5	2.8	0.3
14	-	1.1	2.0	0.4	0.9	0.3
15	-	0.8	0.9	0.3	0.4	0.3
16	-	0.6	0.4	0.4	0.1	0.3

Bottom salinities (continued).

Station	1958					
	Jan.	Feb.	Mar.	Apr.	May	June
1	32.8	28.0	28.0	29.9	27.2	28.8
2	29.4	27.9	28.0	29.0	26.7	27.7
3	29.0	26.1	19.8	27.2	24.4	26.8
4	28.2	25.6	23.3	23.6	22.1	25.6
5	22.7	23.8	20.7	24.5	24.7	24.9
6	23.1	21.6	19.7	21.1	24.2	22.5
7	22.9	20.5	18.6	20.5	20.4	20.3
8	19.7	19.0	16.5	15.1	14.5	17.4
9	19.8	12.8	15.1	13.8	14.7	16.5
10	16.8	9.7	10.8	12.8	9.6	15.4
11	15.6	7.4	9.2	9.9	6.3	12.0
12	3.8	0.6	1.7	5.2	0.9	3.8
13	1.8	0.7	0.3	0.6	0.3	0.3
14	0.2	0.2	0.5	0.3	0.4	0.3
15	0.1	0.3	0.3	0.2	0.3	0.3
16	0.1	0.3	0.3	0.2	0.4	0.3

Station	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	30.3	-	27.5	30.5	25.1	28.9
2	-	29.4	27.0	29.9	25.1	27.5
3	27.7	29.1	25.6	25.8	-	26.1
4	30.2	27.9	21.7	22.1	-	25.1
5	26.7	-	22.3	21.2	-	24.7
6	26.5	27.5	21.1	-	-	21.6
7	25.8	26.3	21.2	20.9	-	21.6
8	21.2	21.6	19.1	21.2	18.8	19.8
9	20.5	20.3	20.6	16.5	16.1	17.2
10	18.1	19.5	15.3	17.2	15.3	14.7
11	15.6	17.5	13.5	14.0	14.0	12.4
12	9.0	12.6	7.1	4.9	10.3	2.7
13	0.7	5.3	5.6	1.0	2.7	0.6
14	0.3	0.4	1.9	0.5	0.4	0.2
15	0.3	0.3	0.6	0.5	0.2	0.2
16	0.3	0.2	0.2	0.5	0.1	0.2

Bottom salinities (continued).

Station	1959					
	Jan.	Feb.	Mar.	Apr.	May	June ^{/1}
1	-	-	-	29.9	-	25.2
2	-	-	-	31.0	-	27.1
3	-	-	-	30.3	-	24.8
4	-	-	-	29.4	-	23.5
5	-	-	-	21.4	-	21.4
6	-	-	-	20.5	-	21.3
7	-	-	-	20.5	-	21.7
8	-	-	-	17.4	-	20.5
9	-	-	-	16.0	-	19.4
10	-	-	-	12.6	-	17.1
11	-	-	-	9.2	-	15.6
12	-	-	-	3.3	-	13.1
13	-	-	-	0.2	-	8.5
14	-	-	-	0.2	-	2.0
15	-	-	-	0.2	-	-
16	-	-	-	0.2	-	0.2

Station	Jul. ^{/2}	Aug. ^{/1}	Sept. ^{/1}	Oct. ^{/1}	Nov.	Dec.
1	30.2	27.3	31.0	30.3	31.5	-
2	30.2	26.7	29.3	29.8	30.7	-
3	24.7	26.4	25.2	28.2	30.0	-
4	23.3	22.5	25.2	27.7	23.5	-
5	22.6	24.2	23.8	26.4	25.5	-
6	21.7	22.6	24.2	26.4	24.0	-
7	20.8	23.5	23.7	25.6	22.4	-
8	18.5	22.0	21.4	23.8	22.2	-
9	16.3	20.4	19.7	22.0	19.5	-
10	14.9	18.4	16.1	19.0	17.4	-
11	11.8	15.2	15.2	15.2	13.4	-
12	5.3	9.9	9.2	9.6	7.1	-
13	0.1	2.4	1.8	-	3.3	-
14	0.1	0.6	0.3	-	0.4	-
15	0.1	0.4	0.2	-	0.1	-
16	0.1	0.4	0.2	-	0.1	-

^{/1} Stations 1-12 determinations by salinometer corrected for temperature.

^{/2} Determinations by Amico-Cotlove automatic chloride titrator.

Table 7. Species of fishes trawled and season and area at which they were captured during Chesapeake Bay, York and Pamunkey River trawl surveys from April 1956 to November 1959.

	Winter	Spring	Summer	Fall	Bay	Lower York	Upper York	Pamunkey
<u>Petromyzon marinus</u>	x			x				
<u>Carcharhinus milberti</u>			x	x	x	x		
<u>Squalus acanthias</u>		x			x			
<u>Raja eglanteria</u>		x	x	x	x			
<u>Raja erinacea</u>				x	x			
<u>Dasyatis americana</u>			x		x			
<u>Dasyatis sayi</u>			x	x	x	x		
<u>Gymnura altavela</u>			x	x	x			
<u>Gymnura micrura</u>			x			x		
<u>Myliobatis freminvillei</u>			x		x			
<u>Rhinoptera bonasus</u>			x	x	x			
<u>Acipenser oxyrhynchus</u>		x						x
<u>Lepisosteus osseus</u>	x	x	x	x			x	x
<u>Alosa aestivalis</u>	x	x	x	x	x	x	x	x
<u>Alosa mediocris</u>			x	x	x	x	x	
<u>Alosa pseudoharengus</u>	x	x	x	x	x	x	x	x
<u>Alosa sapidissima</u>	x	x	x	x	x	x	x	x
<u>Brevoortia tyrannus</u>	x	x	x	x	x	x	x	x
<u>Clupea harengus</u>		x			x	x		
<u>Dorosoma cepedianum</u>	x			x	x		x	x
<u>Etrumeus sadina</u>			x		x			
<u>Anchoa hepsetus</u>		x	x		x	x		
<u>Anchoa mitchilli</u>	x	x	x	x	x	x	x	x
<u>Synodus foetens</u>			x		x			
<u>Cyprinus carpio</u>		x						x
<u>Hybognathus nuchalis</u>	x		x					x
<u>Notropis hudsonius</u>	x	x	x	x				x
<u>Moxostoma macrolepidotum</u>	x	x		x				x
<u>Ictalurus catus</u>	x	x	x	x			x	x
<u>Ictalurus nebulosus</u>		x						x
<u>Ictalurus punctatus</u>	x	x	x	x				x
<u>Noturus gyrinus</u>		x						x
<u>Noturus insignis</u>		x	x	x				x
<u>Anguilla rostrata</u>	x	x	x	x	x	x	x	x
<u>Conger oceanicus</u>				x	x	x		
<u>Strongylura marina</u>			x					x
<u>Fundulus majalis</u>				x			x	
<u>Merluccius bilinearis</u>		x		x	x	x		
<u>Microgadus tomcod</u>		x			x			
<u>Urophycis chuss</u>	x	x		x	x	x		
<u>Urophycis regius</u>	x	x	x	x	x	x	x	

	Winter	Spring	Summer	Fall	Bay	Lower York	Upper York	Pamunkey
<u>Apeltes quadracus</u>				x			x	
<u>Hippocampus erectus</u>			x	x	x			
<u>Syngnathus fuscus</u>	x		x	x	x	x	x	
<u>Centropomus striatus</u>		x	x	x	x	x		
<u>Roccus americanus</u>	x	x	x	x		x	x	x
<u>Roccus saxatilis</u>	x	x	x	x		x	x	x
<u>Centrarchus macropterus</u>				x			x	
<u>Pomoxis nigromaculatus</u>			x					x
<u>Etheostoma nigrum</u>	x			x				x
<u>Pomatomus saltatrix</u>			x	x	x	x		
<u>Caranx latus</u>			x	x	x	x		
<u>Selar crumenophthalmus</u>			x	x	x			
<u>Selene vomer</u>				x		x		
<u>Trachurus lathami</u>		x	x		x			
<u>Vomer setapinnis</u>				x	x	x		
<u>Orthopristis chrysopterus</u>		x	x	x	x			
<u>Bairdiella chrysura</u>	x	x	x	x	x	x	x	x
<u>Cynoscion nebulosus</u>				x	x	x	x	
<u>Cynoscion regalis</u>		x	x	x	x	x	x	x
<u>Larimus fasciatus</u>				x	x			
<u>Leiostomus xanthurus</u>	x	x	x	x	x	x	x	x
<u>Menticirrhus americanus</u>		x	x	x	x	x	x	x
<u>Menticirrhus saxatilis</u>				x	x			
<u>Micropogon undulatus</u>	x	x	x	x	x	x	x	x
<u>Stenotomus chrysops</u>		x	x	x	x			
<u>Chaetodipterus faber</u>			x	x		x	x	
<u>Tautoglabrus adspersus</u>	x				x			
<u>Trichiurus lepturus</u>			x		x	x		
<u>Scomber scombrus</u>		x			x			
<u>Scomberomorus maculatus</u>				x	x			
<u>Gobiosoma boscii</u>				x	x		x	
<u>Gobiosoma ginsburgi</u>	x	x				x		
<u>Microgobius thalassinus</u>		x				x		
<u>Prionotus carolinus</u>	x	x	x	x	x	x	x	
<u>Prionotus evolans</u>		x	x	x	x	x	x	
<u>Chasmodes bosquianus</u>				x	x			
<u>Rissola marginata</u>		x	x	x	x		x	
<u>Peprilus alepidotus</u>			x	x	x	x	x	
<u>Poronotus triacanthus</u>	x	x	x	x	x	x		
<u>Sphyraena borealis</u>				x	x			
<u>Mugil cephalus</u>				x		x	x	
<u>Menidia beryllina</u>				x	x			
<u>Menidia menidia</u>	x	x		x	x	x	x	
<u>Etropus crossetus</u>				x	x			
<u>Etropus microstomus</u>	x	x	x	x	x	x		

	1 3 1							
	Winter	Spring	Summer	Fall	Bay	Lower York	Upper York	Pamunkey
<u>Paralichthys dentatus</u>	x	x	x	x	x	x	x	x
<u>Scophthalmus aquosus</u>		x	x		x	x		
<u>Pseudopleuronectes americanus</u>	x	x		x	x	x		
<u>Trinectes maculatus</u>	x	x	x	x	x	x	x	x
<u>Symphurus plagiatus</u>	x	x	x	x	x	x	x	
<u>Gobiesox strumosus</u>	x	x		x		x	x	
<u>Alutera schoepfi</u>			x		x			
<u>Sphaeroides maculatus</u>		x	x	x	x	x		
<u>Opsanus tau</u>	x	x	x	x	x	x	x	

Table 8. Numbers of fishes trawled per hour at stations from Chesapeake Bay entrance to Lester Manor on the Pamunkey River.

Species	1-4	5-8	9-12	13-16	Total
April - 1956					
<u>Raja eglanteria</u>	2				2
<u>Alosa aestivalis</u>	1	1		1	3
<u>Alosa pseudoharengus</u>	5			4	9
<u>Brevoortia tyrannus</u>			3	1	4
<u>Anchoa mitchilli</u>	4,950	2,998	12		7,960
<u>Notropis hudsonius</u>				24	24
<u>Moxostoma macrolepidotum</u>				1	1
<u>Ictalurus catus</u>			77	482	559
<u>Ictalurus punctatus</u>				6	6
<u>Noturus insignis</u>				6	6
<u>Anguilla rostrata</u>		11	30	6	47
<u>Merluccius bilinearis</u>	55				55
<u>Urophycis regius</u>	954	290	283		1,527
<u>Centropristes striatus</u>	3	4			7
<u>Roccus americanus</u>			88	106	194
<u>Roccus saxatilis</u>			2	11	13
<u>Microgogon undulatus</u>			1		1
<u>Prionotus carolinus</u>	25	98	16		139
<u>Paralichthys dentatus</u>		1			1
<u>Scophthalmus aquosus</u>	3	1			4
<u>Trinectes maculatus</u>		251	3,150	2,247	5,648
<u>Symphura plagiosa</u>	1	5			6
<u>Gobiesox strumosus</u>		1			1
<u>Opsanus tau</u>	1	3	1		5
Total					16,222

May - 1956

<u>Raja eglanteria</u>	2				2
<u>Acipenser oxyrhynchus</u>				1	1
<u>Brevoortia tyrannus</u>			6		6
<u>Clupea harengus</u>	2	1			3
<u>Anchoa hepsetus</u>		2			2
<u>Anchoa mitchilli</u>	698	385	8		1,091
<u>Ictalurus catus</u>			30	521	551
<u>Ictalurus nebulosus</u>				1	1
<u>Ictalurus punctatus</u>				13	13
<u>Noturus insignis</u>				1	1
<u>Noturus gyrinus</u>				1	1
<u>Anguilla rostrata</u>			2	12	14
<u>Microgadus tomcod</u>	1				1
<u>Urophycis regius</u>	202	41	201		444

May - 1956

	1-4	5-8	9-12	13-16	Total
<u>Centropristes striatus</u>	32				32
<u>Roccus americanus</u>			30	165	195
<u>Roccus saxatilis</u>			10		10
<u>Orthopristis chrysopterus</u>	21				21
<u>Bairdiella chrysura</u>	14	25	1		40
<u>Cynoscion regalis</u>	13	38	91		142
<u>Leiostomus xanthurus</u>	2	21	492	13	528
<u>Menticirrhus americanus</u>	9	1			10
<u>Micropogon undulatus</u>	9	121	190		320
<u>Stenotomus chrysops</u>	3				3
<u>Prionotus evolans</u>	1		3		4
<u>Prionotus carolinus</u>	25	3	2		30
<u>Poronotus triacanthus</u>	5	8			13
<u>Etropus microstomus</u>	13				13
<u>Paralichthys dentatus</u>	3	2			5
<u>Scophthalmus aquosus</u>		1			1
<u>Trinectes maculatus</u>	16	195	1,101	411	1,723
<u>Symphura plagiosa</u>	1	3			4
<u>Sphaeroides maculatus</u>	3	2			5
<u>Opsanus tau</u>		3	2		5
Total					5,235

July - 1956

<u>Dasyatis sayi</u>	1				1
<u>Alosa aestivalis</u>				17	17
<u>Alosa pseudoharengus</u>				4	4
<u>Alosa sapidissima</u>				14	14
<u>Brevoortia tyrannus</u>			2		2
<u>Anchoa hepsetus</u>	6				6
<u>Anchoa mitchilli</u>	20	147	30		197
<u>Hybognathus nuchalis</u>				6	6
<u>Notropis hudsonius</u>				154	154
<u>Ictalurus catus</u>				344	344
<u>Ictalurus punctatus</u>				52	52
<u>Anguilla rostrata</u>			1		1
<u>Urophycis regius</u>	5				5
<u>Centropristes striatus</u>	21				21
<u>Roccus americanus</u>			4	352	356
<u>Roccus saxatilis</u>			3	15	18
<u>Orthopristis chrysopterus</u>	2				2
<u>Bairdiella chrysura</u>	63	74	11		148
<u>Cynoscion regalis</u>	72	42	98		212
<u>Leiostomus xanthurus</u>	422	240	135	1	798

July - 1956

	1-4	5-8	9-12	13-16	Total
<u>Menticirrhus americanus</u>	5				5
<u>Micropogon undulatus</u>	9	25	27		61
<u>Stenotomus chrysops</u>	225				225
<u>Trichiurus lepturus</u>		1			1
<u>Prionotus carolinus</u>	64				64
<u>Poronotus triacanthus</u>	13	13			26
<u>Etropus microstomus</u>	10				10
<u>Paralichthys dentatus</u>	7	13			20
<u>Scophthalmus aquosus</u>	5	1			6
<u>Trinectes maculatus</u>	19	42	64	456	581
<u>Symphura plagiosa</u>	3				3
<u>Sphaeroides maculatus</u>	9				9
Total					3,369

August - 1956

<u>Raja eglanteria</u>	1				1
<u>Dasyatis americana</u>	2				2
<u>Dasyatis sayi</u>	2				2
<u>Myliobatis freminvillei</u>	4				4
<u>Rhinoptera bonasus</u>	1				1
<u>Alosa aestivalis</u>				1	1
<u>Alosa pseudoharengus</u>				4	4
<u>Alosa sapidissima</u>				2	2
<u>Anchoa hepsetus</u>	18				18
<u>Anchoa mitchilli</u>	58	15	16		89
<u>Ictalurus catus</u>			7	161	168
<u>Ictalurus punctatus</u>				24	24
<u>Urophycis regius</u>	1				1
<u>Centropristis striatus</u>	21				21
<u>Roccus americanus</u>				112	112
<u>Roccus saxatilis</u>				2	2
<u>Orthopristis chrysopterus</u>	5				5
<u>Bairdiella chrysura</u>	33	91	184	22	330
<u>Cynoscion regalis</u>	149	182	171	241	743
<u>Leiostomus xanthurus</u>	210	230	475	6	921
<u>Menticirrhus americanus</u>	14				14
<u>Micropogon undulatus</u>	6	10	10	5	31
<u>Stenotomus chrysops</u>	495				495
<u>Trichiurus lepturus</u>	1				1
<u>Prionotus carolinus</u>	40				40
<u>Peprilus alepidotus</u>		4	4		8
<u>Poronotus triacanthus</u>	11	2			13

August - 1956

	1-4	5-8	9-12	13-16	Total
<u>Etropus microstomus</u>	6				6
<u>Paralichthys dentatus</u>	8	6			14
<u>Scophthalmus aquosus</u>	1				1
<u>Trinectes maculatus</u>	8	57	75	403	543
<u>Symphura plagiusa</u>	14				14
<u>Alutera schoepfi</u>	1				1
<u>Sphaeroides maculatus</u>	18				18
<u>Opsanus tau</u>		4	2		6
Total					3,656

September - 1956

<u>Dasyatis americana</u>	1				1
<u>Gymnura micrura</u>		1			1
<u>Lepisosteus osseus</u>				1	1
<u>Alosa pseudoharengus</u>				1	1
<u>Alosa sapidissima</u>				30	30
<u>Anchoa hepsetus</u>	14				14
<u>Anchoa mitchilli</u>	84	76	38	7	205
<u>Notropis hudsonius</u>				1	1
<u>Ictalurus catus</u>			58	105	163
<u>Ictalurus punctatus</u>				25	25
<u>Anguilla rostrata</u>				1	1
<u>Centropristes striatus</u>	2				2
<u>Roccus americanus</u>				181	181
<u>Roccus saxatilis</u>			1	4	5
<u>Pomoxis nigromaculatus</u>				1	1
<u>Orthopristis chrysopterus</u>	3				3
<u>Bairdiella chrysura</u>	32	578	338	51	999
<u>Cynoscion regalis</u>	115	874	230	203	1,422
<u>Leiostomus xanthurus</u>	364	516	313	3	1,196
<u>Menticirrhus americanus</u>	1	1	13		15
<u>Micropogon undulatus</u>	3	6	11	2	22
<u>Stenotomus chrysops</u>	139				139
<u>Trichiurus lepturus</u>	2				2
<u>Prionotus carolinus</u>	9				9
<u>Prionotus evolans</u>		2			2
<u>Peprilus alepidotus</u>	3	33	2		38
<u>Poronotus triacanthus</u>	6				6
<u>Paralichthys dentatus</u>	2	4			6
<u>Scophthalmus aquosus</u>	1				1
<u>Trinectes maculatus</u>	7	243	825	603	1,678
<u>Symphura plagiusa</u>		1			1
<u>Alutera schoepfi</u>	2				2
<u>Opsanus tau</u>		1	7		8
Total					6,181

October - 1956

	1-4	5-8	9-12	13-16	Total
<u>Raja eglanteria</u>	1				1
<u>Alosa pseudoharengus</u>				1	1
<u>Anchoa mitchilli</u>	1,506	1,462	43	3	3,014
<u>Notropis hudsonius</u>				1	1
<u>Ictalurus catus</u>				320	320
<u>Ictalurus punctatus</u>				42	42
<u>Anguilla rostrata</u>			3	4	7
<u>Hippocampus erectus</u>	1				1
<u>Syngnathus fuscus</u>			3		3
<u>Centropristes striatus</u>	10				10
<u>Roccus americanus</u>				23	23
<u>Roccus saxatilis</u>				2	2
<u>Orthopristis chrysopterus</u>	2				2
<u>Bairdiella chrysura</u>	37	104	142	160	443
<u>Cynoscion regalis</u>	451	129	14	21	615
<u>Leiostomus xanthurus</u>	169	130	40	10	349
<u>Menticirrhus americanus</u>	5	9	8	1	23
<u>Micropogon undulatus</u>		1	5	57	63
<u>Stenotomus chrysops</u>	1				1
<u>Chaetodipterus faber</u>		1	1		2
<u>Rissola marginata</u>	1				1
<u>Peprilus alepidotus</u>	18	1			19
<u>Poronotus triacanthus</u>	5	1			6
<u>Paralichthys dentatus</u>	18	2			20
<u>Pseudopleuronectes americanus</u>	1				1
<u>Trinectes maculatus</u>	23	285	1,146	4,753	6,207
<u>Symphurus plagiusa</u>	1	2			3
<u>Sphaeroides maculatus</u>	2				2
<u>Opsanus tau</u>	1	4	3		8
Total					11,190

November - 1956

<u>Raja eglanteria</u>	1				1
<u>Alosa mediocris</u>		1			1
<u>Alosa pseudoharengus</u>		10	1		11
<u>Alosa sapidissima</u>				5	5
<u>Anchoa mitchilli</u>	272	1,464	34		1,770
<u>Hybognathus nuchalis</u>				2	2
<u>Notropis hudsonius</u>				2	2
<u>Ictalurus catus</u>			8	274	282
<u>Ictalurus punctatus</u>				130	130
<u>Noturus insignis</u>				6	6
<u>Anguilla rostrata</u>			2	9	11

November - 1956

	1-4	5-8	9-12	13-16	Total
<u>Merluccius bilinearis</u>	6				6
<u>Urophycis chuss</u>	2				2
<u>Urophycis regius</u>	14				14
<u>Hippocampus erectus</u>	1				1
<u>Centropristes striatus</u>	12				12
<u>Roccus americanus</u>			76	331	407
<u>Roccus saxatilis</u>			1		1
<u>Etheostoma nigrum</u>				2	2
<u>Vomer setapinnis</u>		1			1
<u>Orthopristis chrysopterus</u>	1				1
<u>Bairdiella chrysura</u>	60	563	117	6	746
<u>Cynoscion regalis</u>	350	17			367
<u>Leiostomus xanthurus</u>	69	771	233	10	1,083
<u>Menticirrhus americanus</u>	9	8	3		20
<u>Micropogon undulatus</u>	11	10	75	40	136
<u>Stenotomus chrysops</u>	1				1
<u>Chaetodipterus faber</u>			1		1
<u>Gobiosoma bosci</u>			1		1
<u>Prionotus carolinus</u>	1				1
<u>Prionotus evolans</u>	3	1			4
<u>Poronotus triacanthus</u>	14	12			26
<u>Menidia menidia</u>		3			3
<u>Etropus microstomus</u>	1	1			2
<u>Paralichthys dentatus</u>	25	9	4		38
<u>Trinectes maculatus</u>	6	146	1,289	15,949	17,390
<u>Symphurus plagiusa</u>	6	5	1		12
<u>Cobiesox strumosus</u>		1			1
<u>Sphaeroides maculatus</u>	8				8
<u>Opsanus tau</u>	1	8	18		27
Total					22,535

December - 1956

<u>Raja eglanteria</u>	2				2
<u>Raja erinacea</u>	1				1
<u>Lepisosteus osseus</u>				4	4
<u>Alosa aestivalis</u>	1				1
<u>Alosa pseudoharengus</u>		12	76		88
<u>Alosa sapidissima</u>		12	11		23
<u>Brevoortia tyrannus</u>	13	3			16
<u>Dorosoma cepedianum</u>	6		1		7
<u>Anchoa mitchilli</u>	6,770	10,270	118		17,158
<u>Notropis hudsonius</u>				48	48
<u>Moxostoma macrolepidotum</u>				2	2
<u>Ictalurus catus</u>			44	387	431

December - 1956

	1-4	5-8	9-12	13-16	Total
<u>Ictalurus punctatus</u>				304	304
<u>Noturus insignis</u>				1	1
<u>Anguilla rostrata</u>			1	7	8
<u>Conger oceanicus</u>	1				1
<u>Urophycis chuss</u>	10				10
<u>Urophycis regius</u>	5				5
<u>Syngnathus fuscus</u>	2	1			3
<u>Roccus americanus</u>		1	502	392	895
<u>Roccus saxatilis</u>			44		44
<u>Etheostoma nigrum</u>				2	2
<u>Bairdiella chrysura</u>	12	21	17		50
<u>Cynoscion regalis</u>	18				18
<u>Leiostomus xanthurus</u>	2,468	28	8		2,504
<u>Menticirrhus americanus</u>	1				1
<u>Micropogon undulatus</u>	125	58	314	32	529
<u>Prionotus carolinus</u>	1				1
<u>Poronotus triacanthus</u>	10	70			80
<u>Menidia menidia</u>		22			22
<u>Etropus crossotus</u>	2				2
<u>Etropus microstomus</u>	1	1			2
<u>Paralichthys dentatus</u>	8				8
<u>Pseudopleuronectes americanus</u>		1			1
<u>Trinectes maculatus</u>		10	267	3,066	3,343
<u>Symphura plagiosa</u>	5				5
<u>Gobiesox strumosus</u>		1	1		2
<u>Opsanus tau</u>		1			1
Total					25,623

January - 1957

<u>Alosa aestivalis</u>	225	91	29	-	345
<u>Alosa pseudoharengus</u>	67	75	2	-	144
<u>Alosa sapidissima</u>	56	11		-	67
<u>Brevoortia tyrannus</u>	71	123		-	194
<u>Dorosoma cepedianum</u>	1		3	-	4
<u>Anchoa mitchilli</u>	1,085	422	13	-	1,520
<u>Urophycis regius</u>	10			-	10
<u>Syngnathus fuscus</u>	10			-	10
<u>Roccus americana</u>		13	503	-	516
<u>Roccus saxatilis</u>		7	113	-	120
<u>Bairdiella chrysura</u>		3		-	3
<u>Leiostomus xanthurus</u>	6	1	7	-	14
<u>Micropogon undulatus</u>	29	99	84	-	212
<u>Tautoglabrus adspersus</u>	1			-	1

January - 1957

	1-4	5-8	9-12	13-16	Total
<u>Poronotus triacanthus</u>		2			2
<u>Menidia menidia</u>	70	105	2	-	177
<u>Etropus microstomus</u>	2			-	2
<u>Paralichthys dentatus</u>	1			-	1
<u>Trinectes maculatus</u>		10	1,558	-	1,568
Total					4,910

February - 1957

<u>Alosa aestivalis</u>	1	24	2	4	31
<u>Alosa pseudoharengus</u>		189	16	2	207
<u>Alosa sapidissima</u>	1	4		2	7
<u>Brevoortia tyrannus</u>		19			19
<u>Anchoa mitchilli</u>	1,554	2,036	25		3,615
<u>Notropis hudsonius</u>				4	4
<u>Moxostoma macrolepidotum</u>				2	2
<u>Ictalurus catus</u>			17	306	323
<u>Ictalurus punctatus</u>				116	116
<u>Anguilla rostrata</u>			1		1
<u>Urophycis regius</u>	1				1
<u>Syngnathus fuscus</u>	7	1			8
<u>Roccus americanus</u>		2	322	254	578
<u>Roccus saxatilis</u>			20	8	28
<u>Micropogon undulatus</u>	5	16	32	6	59
<u>Menidia menidia</u>	18	58			76
<u>Trinectes maculatus</u>		6	698	1,210	1,914
<u>Symphura plagiusa</u>			1		1
<u>Opsanus tau</u>		1			1
Total					6,991

March - 1957

<u>Lepisosteus osseus</u>				2	2
<u>Alosa aestivalis</u>		4			4
<u>Alosa pseudoharengus</u>	1	8	58		67
<u>Alosa sapidissima</u>	4	4			8
<u>Brevoortia tyrannus</u>		1			1
<u>Anchoa mitchilli</u>	1,491	1,079	411		2,981
<u>Hybognathus nuchalis</u>				2	2
<u>Notropis hudsonius</u>				64	64
<u>Ictalurus catus</u>			260	366	626
<u>Ictalurus punctatus</u>				86	86
<u>Anguilla rostrata</u>			9		9

March - 1957

	1-4	5-8	9-12	13-16	Total
<u>Urophycis chuss</u>	1				1
<u>Urophycis regius</u>	15	9	36		60
<u>Syngnathus fuscus</u>	1	2			3
<u>Roccus americanus</u>			347	356	703
<u>Roccus saxatilis</u>			22	4	26
<u>Etheostoma nigrum</u>				6	6
<u>Leiostomus xanthurus</u>	1				1
<u>Micropogon undulatus</u>		35	27		62
<u>Prionotus carolinus</u>	6				6
<u>Menidia menidia</u>	1				1
<u>Paralichthys dentatus</u>	1		1		2
<u>Scophthalmus aquosus</u>	1	1			2
<u>Pseudopleuronectes americanus</u>	1				1
<u>Trinectes maculatus</u>		3	1,005	910	1,918
Total					6,642

May - 1957

<u>Brevoortia tyrannus</u>	-	1		2	3
<u>Anchoa mitchilli</u>	-	215	13		228
<u>Notropis hudsonius</u>	-			2	2
<u>Ictalurus catus</u>	-		15	56	71
<u>Ictalurus punctatus</u>	-			4	4
<u>Anguilla rostrata</u>	-		4	2	6
<u>Urophycis regius</u>	-	21	190		211
<u>Roccus americanus</u>	-			198	198
<u>Roccus saxatilis</u>	-			2	2
<u>Bairdiella chrysura</u>	-	14			14
<u>Cynoscion regalis</u>	-	58	53		111
<u>Leiostomus xanthurus</u>	-	46	177	4	227
<u>Micropogon undulatus</u>	-	21	1,532	732	2,285
<u>Prionotus carolinus</u>	-	1			1
<u>Prionotus evolans</u>	-		3		3
<u>Rissola marginata</u>	-		1		1
<u>Poronotus triacanthus</u>	-	1			1
<u>Paralichthys dentatus</u>	-	1	1		2
<u>Trinectes maculatus</u>	-	110	623	114	847
<u>Symphura plagiosa</u>	-	1			1
<u>Spheroides maculatus</u>	-	1			1
<u>Opsanus tau</u>	-	1	3		4
Total					4,223

July - 1957

	1-4	5-8	9-12	13-16	Total
<u>Raja eglanteria</u>	4	-	-	-	4
<u>Etrumeus sadina</u>	1	-	-	-	1
<u>Anchoa mitchilli</u>	8	-	-	-	8
<u>Urophycis regius</u>	3	-	-	-	3
<u>Centropristes striatus</u>	4	-	-	-	4
<u>Trachurus lathami</u>	1	-	-	-	1
<u>Orthopristis chrysopterus</u>	1	-	-	-	1
<u>Bairdiella chrysura</u>	15	-	-	-	15
<u>Cynoscion regalis</u>	128	-	-	-	128
<u>Leiostomus xanthurus</u>	41	-	-	-	41
<u>Micropogon undulatus</u>	267	-	-	-	267
<u>Stenotomus chrysops</u>	475	-	-	-	475
<u>Prionotus carolinus</u>	27	-	-	-	27
<u>Poronotus triacanthus</u>	111	-	-	-	111
<u>Paralichthys dentatus</u>	15	-	-	-	15
<u>Trinectes maculatus</u>	5	-	-	-	5
<u>Symphura plagiura</u>	10	-	-	-	10
<u>Alutera schoepfi</u>	4	-	-	-	4
<u>Sphaeroides maculatus</u>	5	-	-	-	5
Total					1,125

August - 1957

<u>Carcharinus milberti</u>	2	1			3
<u>Gymnura altavela</u>	1				1
<u>Raja eglanteria</u>	1				1
<u>Alosa aestivalis</u>				160	160
<u>Alosa pseudoharengus</u>				8	8
<u>Brevoortia tyrannus</u>				2	2
<u>Anchoa hepsetus</u>	178	171			349
<u>Anchoa mitchilli</u>	254	144	24	268	690
<u>Synodus foetens</u>	1				1
<u>Ictalurus catus</u>			14	122	136
<u>Ictalurus punctatus</u>				12	12
<u>Anguilla rostrata</u>		8			8
<u>Hippocampus erectus</u>	2				2
<u>Centropristes striatus</u>	6				6
<u>Roccus americanus</u>				20	20
<u>Orthopristis chrysopterus</u>	2				2
<u>Bairdiella chrysura</u>	146	305	265	280	996
<u>Cynoscion regalis</u>	312	320	175	128	935
<u>Leiostomus xanthurus</u>	19	137	27	4	187
<u>Menticirrhus americanus</u>		8	7		15
<u>Micropogon undulatus</u>	176	215	224	280	895
<u>Stenotomus chrysops</u>	81				81

August - 1957

	1-4	5-8	9-12	13-16	Total
<u>Prionotus carolinus</u>	4				4
<u>Peprilus alepidotus</u>	6	8			14
<u>Poronotus triacanthus</u>	30	9			39
<u>Etropus microstomus</u>	1				1
<u>Paralichthys dentatus</u>	6	5	3		14
<u>Scophthalmus aquosus</u>	1				1
<u>Trinectes maculatus</u>	3	63	443	1,878	2,387
<u>Symphura plagiusa</u>	3		1		4
<u>Sphaeroides maculatus</u>	4				4
<u>Alutera schoepfi</u>	1				1
<u>Opsanus tau</u>		8	2		10
Total					6,989

September - 1957

<u>Dasyatis sayi</u>	2				2
<u>Gymnura altavela</u>	2				2
<u>Gymnura micrura</u>	1				1
<u>Raja eglanteria</u>	1				1
<u>Lepisosteus osseus</u>				4	4
<u>Alosa aestivalis</u>				56	56
<u>Alosa pseudoharengus</u>				6	6
<u>Alosa sapidissima</u>				2	2
<u>Anchoa hepsetus</u>	29	4			33
<u>Anchoa mitchilli</u>		183	27	32	242
<u>Notropis hudsonius</u>				6	6
<u>Ictalurus catus</u>			4	60	64
<u>Ictalurus punctatus</u>				24	24
<u>Anguilla rostrata</u>		2	6	2	10
<u>Syngnathus fuscus</u>	1		5		6
<u>Centropristes striatus</u>		1			1
<u>Roccus americanus</u>				36	36
<u>Roccus saxatilis</u>			2		2
<u>Bairdiella chrysura</u>	76	441	671	910	2,098
<u>Cynoscion regalis</u>	358	137	146	86	727
<u>Leiostomus xanthurus</u>	17	36	28		81
<u>Menticirrhus americanus</u>	4	5	44	2	55
<u>Micropogon undulatus</u>	190	228	154	300	872
<u>Stenotomus chrysops</u>	72	2			74
<u>Prionotus carolinus</u>	2				2
<u>Prionotus evolans</u>	1				1
<u>Peprilus alepidotus</u>		1	4		5
<u>Poronotus triacanthus</u>	9				9
<u>Etropus microstomus</u>	11				11

September - 1957

	1-4	5-8	9-12	13-16	Total
<u>Paralichthys dentatus</u>	12	5	6		23
<u>Scophthalmus aquosus</u>	1				1
<u>Trinectes maculatus</u>	23	155	622	916	1,716
<u>Symphura plagiusa</u>	10	3			13
<u>Sphaeroides maculatus</u>	1				1
<u>Opsanus tau</u>	2	2	1		5
Total					6,192

October - 1957

<u>Lepisosteus osseus</u>			2		2
<u>Alosa aestivalis</u>				20	20
<u>Alosa pseudoharengus</u>		2		2	4
<u>Alosa sapidissima</u>				2	2
<u>Brevoortia tyrannus</u>		3			3
<u>Anchoa hepsetus</u>	26	6			32
<u>Anchoa mitchilli</u>	368	1,336	120		1,824
<u>Hybognathus nuchalis</u>				10	10
<u>Ictalurus catus</u>			56	152	208
<u>Ictalurus punctatus</u>				228	228
<u>Noturus insignis</u>				14	14
<u>Anguilla rostrata</u>		3	2	6	11
<u>Roccus americanus</u>			56	184	240
<u>Roccus saxatilis</u>			1		1
<u>Pomatomus saltatrix</u>	5	1			6
<u>Selene vomer</u>		1			1
<u>Bairdiella chrysura</u>	61	147	445	4	657
<u>Cynoscion regalis</u>	157	94	54		305
<u>Leiostomus xanthurus</u>	15	23	53		91
<u>Micropogon undulatus</u>	2	13	139	34	188
<u>Stenotomus chrysops</u>	2				2
<u>Peprilus alepidotus</u>		22			22
<u>Poronotus triacanthus</u>	129	11			140
<u>Menidia menidia</u>			1		1
<u>Etropus microstomus</u>		1			1
<u>Paralichthys dentatus</u>		1			1
<u>Trinectes maculatus</u>	1	39	1,511	6,710	8,261
<u>Sphaeroides maculatus</u>	1				1
<u>Opsanus tau</u>		1			1
Total					12,277

November - 1957

	1-4	5-8	9-12	13-16	Total
<u>Lepisosteus osseus</u>				2	2
<u>Alosa aestivalis</u>		2			2
<u>Alosa pseudoharengus</u>		1	1		2
<u>Brevoortia tyrannus</u>		3			3
<u>Anchoa mitchilli</u>	74	2,131	165	14	2,384
<u>Moxostoma macrolepidotum</u>				8	
<u>Ictalurus catus</u>			62	94	156
<u>Ictalurus punctatus</u>				52	52
<u>Anguilla rostrata</u>		2		2	4
<u>Merluccius bilinearis</u>	1				1
<u>Urophycis regius</u>	7		1		8
<u>Hippocampus erectus</u>	1				1
<u>Syngnathus fuscus</u>	3	2			5
<u>Roccus americanus</u>			81	70	151
<u>Roccus saxatilis</u>			2		2
<u>Pomatomus saltatrix</u>	25				25
<u>Orthopristis chrysopterus</u>	1				1
<u>Bairdiella chrysura</u>	223	74	43		340
<u>Cynoscion nebulosus</u>	2				2
<u>Cynoscion regalis</u>	449	28	1		478
<u>Leiostomus xanthurus</u>	74	2	24		100
<u>Menticirrhus americanus</u>	8	3	2		13
<u>Micropogon undulatus</u>	3	18	82	114	217
<u>Prionotus carolinus</u>	5				5
<u>Chasmodes bosquianus</u>	1				1
<u>Peprilus alepidotus</u>	1				1
<u>Poronotus triacanthus</u>	9				9
<u>Etropus microstomus</u>	6	1			7
<u>Paralichthys dentatus</u>	4	3	2		9
<u>Trinectes maculatus</u>	3	43	1,770	10,334	12,150
<u>Symphura plagiosa</u>					5
<u>Opsanus tau</u>	1				1
Total					16,145

December - 1957

<u>Petromyzon marinus</u>				4	4
<u>Lepisosteus osseus</u>				2	2
<u>Alosa aestivalis</u>	1		3		4
<u>Alosa pseudoharengus</u>		12	8		20
<u>Alosa sapidissima</u>		9	1		10
<u>Brevoortia tyrannus</u>	13				13
<u>Dorosoma cepedianum</u>				4	4
<u>Anchoa mitchilli</u>	8,918	1,666	151		10,735
<u>Notropis hudsonius</u>				76	76

December - 1957

	1-4	5-8	9-12	13-16	Total
<u>Hybognathus nuchalis</u>				4	4
<u>Moxostoma macrolepidatum</u>				2	2
<u>Ictalurus catus</u>			372	190	562
<u>Ictalurus punctatus</u>				184	184
<u>Anguilla rostrata</u>	2				2
<u>Urophycis regius</u>	11	2			13
<u>Syngnathus fuscus</u>	10	1			11
<u>Roccus americanus</u>		1	571	404	976
<u>Roccus saxatilis</u>		1	8	2	11
<u>Centrarchus macropterus</u>			1		1
<u>Etheostoma nigrum</u>				4	4
<u>Bairdiella chrysura</u>	10	1	1		12
<u>Cynoscion nebulosus</u>	1				1
<u>Cynoscion regalis</u>	13				13
<u>Larimus fasciatus</u>	1				1
<u>Leiostomus xanthurus</u>	10	17	1		28
<u>Micropogon undulatus</u>	31	9	318		358
<u>Gobiosoma boscii</u>	1				1
<u>Rissola marginata</u>	1				1
<u>Menidia menidia</u>		1	8		9
<u>Etropus microstomus</u>	16				16
<u>Paralichthys dentatus</u>	4	8	33		45
<u>Trinectes maculatus</u>		15	1,352	2,668	4,035
<u>Symphura plagiura</u>	5				5
<u>Gobiesox strumosus</u>				1	1
<u>Opsanus tau</u>	2				2
Total					17,166

January - 1958

<u>Petromyzon marinus</u>				12	12
<u>Lepisosteus osseus</u>				6	6
<u>Alosa aestivalis</u>	800	1,216	20	2	2,038
<u>Alosa pseudoharengus</u>	1	77	16		94
<u>Alosa sapidissima</u>		1			1
<u>Brevoortia tyrannus</u>	5				5
<u>Dorosoma cepedianum</u>			2		2
<u>Anchoa mitchilli</u>	42	25	15	2	84
<u>Notropis hudsonius</u>				8	8
<u>Moxostoma macrolepidotum</u>				118	118
<u>Ictalurus catus</u>			62	274	336
<u>Ictalurus punctatus</u>				392	392
<u>Anguilla rostrata</u>				4	4
<u>Roccus americanus</u>		14	1,545	738	2,297

January - 1958

	1-4	5-8	9-12	13-16	Total
<u>Roccus saxatilis</u>		3	34	4	41
<u>Etheostoma nigrum</u>				18	18
<u>Micropogon undulatus</u>		5	20		25
<u>Menidia menidia</u>		18	1		19
<u>Trinectes maculatus</u>	1	2	126	716	845
Total.					6,345

February - 1958

<u>Lepisosteus osseus</u>				8	8
<u>Alosa aestivalis</u>	1	102	9		112
<u>Alosa pseudoharengus</u>	1	7	35	6	49
<u>Brevoortia tyrannus</u>	2	1			3
<u>Dorosoma cepedianum</u>				6	6
<u>Anchoa mitchilli</u>	62	278	2		342
<u>Notropis hudsonius</u>				88	88
<u>Moxostoma macrolepidotum</u>				84	84
<u>Ictalurus catus</u>			106	318	424
<u>Ictalurus punctatus</u>				264	264
<u>Urophycis regius</u>	1				1
<u>Syngnathus fuscus</u>	2				2
<u>Roccus americanus</u>		1	1,098	2,410	3,509
<u>Roccus saxatilis</u>			35		35
<u>Micropogon undulatus</u>		1	5		6
<u>Gobiosoma ginsburgi</u>		2			2
<u>Menidia menidia</u>		3	2		5
<u>Paralichthys dentatus</u>	1	1	2		4
<u>Trinectes maculatus</u>		2	319	362	683
<u>Symphura plagiosa</u>			1		1
<u>Gobiesox strumosus</u>		1			1
Total					5,629

March - 1958

<u>Alosa aestivalis</u>	2	6	195	12	215
<u>Alosa pseudoharengus</u>	2	2	82	2	88
<u>Brevoortia tyrannus</u>			1		1
<u>Dorosoma cepedianum</u>			1		1
<u>Anchoa mitchilli</u>	1	5	1		7
<u>Notropis hudsonius</u>				52	52
<u>Moxostoma macrolepidotum</u>				2	2
<u>Ictalurus catus</u>			214	218	432
<u>Ictalurus punctatus</u>				64	64
<u>Anguilla rostrata</u>			6		6

March - 1958

	1-4	5-8	9-12	13-16	Total
<u>Urophycis regius</u>			1		1
<u>Hippocampus erectus</u>	1				1
<u>Syngnathus fuscus</u>		3			3
<u>Roccus americanus</u>			876	370	1,246
<u>Roccus saxatilis</u>			42		42
<u>Microgobius thalassinus</u>		2			2
<u>Chasmodes bosquianus</u>		1			1
<u>Menidia menidia</u>		4			4
<u>Trinectes maculatus</u>		7	159	1,876	2,042
<u>Symphura plagiosa</u>		1	2		3
<u>Gobiosoma strumosus</u>	1				1
<u>Opsanus tau</u>		3			3
Total					4,217

April - 1958

<u>Lepisosteus osseus</u>			2	2	4
<u>Alosa aestivalis</u>		6	4	38	48
<u>Alosa pseudoharengus</u>	1	37	13	6	57
<u>Alosa sapidissima</u>		2		2	4
<u>Brevoortia tyrannus</u>			1		1
<u>Anchoa mitchilli</u>	48	241			289
<u>Notropis hudsonius</u>				150	150
<u>Ictalurus catus</u>			199	654	853
<u>Ictalurus punctatus</u>				106	106
<u>Anguilla rostrata</u>		5	37	8	50
<u>Merluccius bilinearis</u>	2	1			3
<u>Urophycis chuss</u>		1			1
<u>Urophycis regius</u>	7	74	304		385
<u>Roccus americanus</u>			331	346	677
<u>Roccus saxatilis</u>			1	2	3
<u>Leiostomus xanthurus</u>	1				1
<u>Micropogon undulatus</u>		15			15
<u>Gobiosoma ginsburgi</u>		1			1
<u>Etropus microstomus</u>	1				1
<u>Paralichthys dentatus</u>	1	1	10		12
<u>Scophthalmus aquosus</u>	2				2
<u>Trinectes maculatus</u>		179	3,624	3,982	7,785
<u>Opsanus tau</u>	1		17		18
Total					10,466

May - 1958

	1-4	5-8	9-12	13-16	Total
<u>Alosa aestivalis</u>			2	2	4
<u>Alosa pseudoharengus</u>	1		1		2
<u>Alosa sapidissima</u>		1			1
<u>Brevoortia tyrannus</u>	157	14	18	4	193
<u>Clupea harengus</u>		1			1
<u>Anchoa mitchilli</u>	1,002	275	112		1,389
<u>Cyprinus carpio</u>				2	2
<u>Notropis hudsonius</u>				2	2
<u>Moxostoma macrolepidotum</u>				4	4
<u>Ictalurus catus</u>			239	394	633
<u>Ictalurus punctatus</u>				81	81
<u>Anguilla rostrata</u>		1	3	10	14
<u>Merluccius bilinearis</u>	14	4			18
<u>Urophycis regius</u>	104	77	58		239
<u>Roccus americanus</u>			97	130	227
<u>Bairdiella chrysura</u>	27	2			29
<u>Cynoscion regalis</u>	7	1	4		12
<u>Leiostomus xanthurus</u>	1	1			2
<u>Menticirrhus americanus</u>	1				1
<u>Micropogon undulatus</u>		6	3		9
<u>Stenotomus chrysops</u>	4				4
<u>Scomber scombrus</u>	1				1
<u>Prionotus carolinus</u>	4				4
<u>Poronotus triacanthus</u>	32	14			46
<u>Etropus microstomus</u>	1				1
<u>Paralichthys dentatus</u>	2				2
<u>Scophthalmus aquosus</u>	1				1
<u>Pseudopleuronectes americanus</u>	2				2
<u>Trinectes maculatus</u>		56	543	168	767
<u>Opsanus tau</u>	1	6	20		27
Total					3,718

June - 1958

<u>Raja eglanteria</u>	1				1
<u>Alosa aestivalis</u>			2	264	266
<u>Alosa pseudoharengus</u>				2	2
<u>Brevoortia tyrannus</u>		14	3	22	39
<u>Clupea harengus</u>	1				1
<u>Anchoa hepsetus</u>	3				3
<u>Anchoa mitchilli</u>	192	142	19		353
<u>Notropis hudsonius</u>				12	12
<u>Hybognathus nuchalis</u>				2	2
<u>Moxostoma macrolepidotum</u>				2	2

June - 1958

	1-4	5-8	9-12	13-16	Total
<u>Ictalurus catus</u>			63	218	281
<u>Ictalurus punctatus</u>				6	6
<u>Anguilla rostrata</u>		2		2	4
<u>Merluccius bilinearis</u>	1				1
<u>Urophycis regius</u>	19	7	1		27
<u>Roccus americanus</u>			35	300	335
<u>Roccus saxatilis</u>			3		3
<u>Trachurus lathami</u>	2				2
<u>Bairdiella chrysura</u>	6	6	5		17
<u>Cynoscion regalis</u>	33		26		59
<u>Leiostomus xanthurus</u>	1	25	768	6	800
<u>Micropogon undulatus</u>		26	38		64
<u>Poronotus triacanthus</u>	1	15	2		18
<u>Paralichthys dentatus</u>	1	4	5		10
<u>Scophthalmus aquosus</u>	1				1
<u>Pseudopleuronectes americanus</u>	2				2
<u>Trinectes maculatus</u>	5	98	137	182	422
<u>Sphaeroides maculatus</u>	2				2
<u>Opsanus tau</u>		1			1
Total					2,736

July - 1958

<u>Alosa aestivalis</u>				210	210
<u>Alosa mediocris</u>			1		1
<u>Alosa pseudoharengus</u>			6	8	14
<u>Alosa sapidissima</u>				40	40
<u>Brevoortia tyrannus</u>			20		20
<u>Anchoa hepsetus</u>		1			1
<u>Anchoa mitchilli</u>	5	38	65		108
<u>Hybognathus nuchalis</u>				10	10
<u>Notropis hudsonius</u>				20	20
<u>Moxostoma macrolepidotum</u>				4	4
<u>Ictalurus catus</u>			64	484	548
<u>Ictalurus punctatus</u>				34	34
<u>Noturus insignis</u>				2	2
<u>Anguilla rostrata</u>		5	2		7
<u>Urophycis regius</u>	1				1
<u>Roccus americanus</u>			11	3,281	3,292
<u>Roccus saxatilis</u>			60	388	448
<u>Bairdiella chrysura</u>		1	59		60
<u>Cynoscion regalis</u>		6	35		41
<u>Leiostomus xanthurus</u>	1	162	660	76	899
<u>Micropogon undulatus</u>		42	27		69
<u>Poronotus triacanthus</u>		11			11

- 19 -

July - 1958

	1-4	5-8	9-12	13-16	Total
<u>Etropus microstomus</u>	3				3
<u>Paralichthys dentatus</u>	4	43	10		57
<u>Trinectes maculatus</u>	2	278	230	198	708
<u>Opsanus tau</u>		4	6		10
Total					6,618

August - 1958

<u>Myliobatis freminvillei</u>	1				1
<u>Lepisosteus osseus</u>				2	2
<u>Alosa aestivalis</u>				90	90
<u>Alosa mediocris</u>		1	4		5
<u>Alosa pseudoharengus</u>		14	29	74	117
<u>Alosa sapidissima</u>				10	10
<u>Brevoortia tyrannus</u>	1	1	16	6	24
<u>Anchoa hepsetus</u>	25	4			29
<u>Anchoa mitchilli</u>	1	378	267	94	740
<u>Notropis hudsonius</u>				18	18
<u>Moxostoma macrolepidotum</u>				10	10
<u>Ictalurus catus</u>			5	430	435
<u>Ictalurus punctatus</u>				26	26
<u>Roccus americanus</u>				831	831
<u>Roccus saxatilis</u>			92	124	216
<u>Pomatomus saltatrix</u>	2				2
<u>Trachurus lathami</u>	1				1
<u>Bairdiella chrysura</u>		14	122	120	256
<u>Cynoscion regalis</u>	521	24	36	12	593
<u>Leiostomus xanthurus</u>	87	57	513	42	699
<u>Micropogon undulatus</u>			2		2
<u>Stenotomus chrysops</u>	4				4
<u>Prionotus carolinus</u>	1				1
<u>Poronotus triacanthus</u>	47	12			59
<u>Etropus microstomus</u>	1				1
<u>Paralichthys dentatus</u>		3			3
<u>Trinectes maculatus</u>	1	7	7	490	505
Total					4,680

September - 1958

<u>Carcharhinus milberti</u>		1			1
<u>Myliobatis freminvillei</u>	3				3
<u>Lepisosteus osseus</u>				2	2
<u>Alosa aestivalis</u>				54	54

September - 1958

	1-4	5-8	9-12	13-16	Total
<u>Alosa mediocris</u>			1		1
<u>Alosa pseudoharengus</u>		1	6	612	619
<u>Alosa sapidissima</u>				16	16
<u>Brevoortia tyrannus</u>		1	10	12	23
<u>Anchoa hepsetus</u>	45	4			49
<u>Anchoa mitchilli</u>	59	389	384	1,532	2,364
<u>Notropis hudsonius</u>				6	6
<u>Ictalurus catus</u>			74	584	658
<u>Ictalurus punctatus</u>				16	16
<u>Anguilla rostrata</u>			12	6	18
<u>Strongylura marina</u>				2	2
<u>Roccus americanus</u>			9	396	405
<u>Roccus saxatilis</u>			2	104	106
<u>Caranx latus</u>	7	16			23
<u>Selar crumenophthalmus</u>	2				2
<u>Trachurus lathami</u>	3				3
<u>Bairdiella chrysura</u>	88	132	225	232	677
<u>Cynoscion regalis</u>	24	15	373	208	620
<u>Leiostomus xanthurus</u>		4	108	20	132
<u>Menticirrhus americanus</u>			1		1
<u>Micropogon undulatus</u>			11	76	87
<u>Stenotomus chrysops</u>	5				5
<u>Peprilus alepidotus</u>	4	3	1		8
<u>Poronotus triacanthus</u>	723	31			754
<u>Paralichthys dentatus</u>		1	5		6
<u>Trinectes maculatus</u>		7	729	1,218	1,954
<u>Opsanus tau</u>		3			3
Total					8,618

October - 1958

<u>Lepisosteus osseus</u>				2	2
<u>Alosa aestivalis</u>				16	16
<u>Alosa mediocris</u>		2			2
<u>Alosa pseudoharengus</u>		4	3	32	39
<u>Alosa sapidissima</u>			4	12	16
<u>Brevoortia tyrannus</u>	1		2		3
<u>Anchoa hepsetus</u>	5				5
<u>Anchoa mitchilli</u>	625	654	156	14	1,449
<u>Hybognathus nuchalis</u>				2	2
<u>Notropis hudsonius</u>				2	2
<u>Ictalurus catus</u>			190	356	546
<u>Ictalurus punctatus</u>				38	38
<u>Anguilla rostrata</u>		1	1		2
<u>Conger oceanica</u>		1			1

October - 1958

	1-4	5-8	9-12	13-16	Total
<u>Roccus americanus</u>			56	768	824
<u>Roccus saxatilis</u>			11	6	17
<u>Pomatomus saltatrix</u>	1				1
<u>Caranx latus</u>		2			2
<u>Vomer setapinnis</u>	1				1
<u>Bairdiella chrysura</u>	43	54	421	10	528
<u>Cynoscion regalis</u>	90	12	20		122
<u>Leiostomus xanthurus</u>	9	12	55		76
<u>Menticirrhus saxatilis</u>	2				2
<u>Micropogon undulatus</u>			20	250	270
<u>Stenotomus chrysops</u>	3				3
<u>Peprilus alepidotus</u>			1		1
<u>Poronotus triacanthus</u>	26	2			28
<u>Etropus microstomus</u>	1				1
<u>Paralichthys dentatus</u>				2	2
<u>Trinectes maculatus</u>	1	3	809	8,638	9,451
<u>Symphura plagiosa</u>	1				1
<u>Opsanus tau</u>		1	1		2
Total					13,455

November - 1958

<u>Raja eglanteria</u>	1				1
<u>Lepisosteus osseus</u>				2	2
<u>Alosa aestivalis</u>			2	12	14
<u>Alosa mediocris</u>	2	5			7
<u>Alosa pseudoharengus</u>	2	4	29	6	41
<u>Alosa sapidissima</u>			16	4	20
<u>Brevoortia tyrannus</u>	4		1	2	7
<u>Anchoa mitchilli</u>	1,643	1,291	31	2	2,967
<u>Notropis hudsonius</u>				2	2
<u>Ictalurus catus</u>			18	298	316
<u>Ictalurus punctatus</u>				116	116
<u>Anguilla rostrata</u>		2		4	6
<u>Conger oceanicus</u>		1			1
<u>Hippocampus erectus</u>	1				1
<u>Roccus americanus</u>			79	368	447
<u>Roccus saxatilis</u>		5	8		13
<u>Pomatomus saltatrix</u>	1				1
<u>Bairdiella chrysura</u>	45	63	2		110
<u>Cynoscion nebulosus</u>		2	1		3
<u>Cynoscion regalis</u>	8	24	3		35
<u>Leiostomus xanthurus</u>	29	121	50	8	208
<u>Menticirrhus americanus</u>		7			7

November - 1958

	1-4	5-8	9-12	13-16	Total
<u>Micropogon undulatus</u>	1	1	130	42	174
<u>Prionotus carolinus</u>	1				1
<u>Gobiosoma boscii</u>			2		2
<u>Peprilus alepidotus</u>		1			1
<u>Poronotus triacanthus</u>	4	4			8
<u>Menidia menidia</u>		1			1
<u>Etropus crossotus</u>	1				1
<u>Etropus microstomus</u>	4				4
<u>Paralichthys dentatus</u>	3	12	2		17
<u>Trinectes maculatus</u>	6	796	574	5,516	6,892
<u>Symphura plagiusa</u>	1				1
<u>Opsanus tau</u>	2	2			4
Total					11,431

December - 1958

<u>Alosa aestivalis</u>	780	55	4	2	841
<u>Alosa mediocris</u>	2	1			3
<u>Alosa pseudoharengus</u>	745	201			946
<u>Alosa sapidissima</u>	36	18			54
<u>Brevoortia tyrannus</u>	64	5			69
<u>Dorosoma cepedianum</u>				12	12
<u>Anchoa mitchilli</u>	72	3	6		81
<u>Hybognathus nuchalis</u>				28	28
<u>Notropis hudsonius</u>				40	40
<u>Moxostoma macrolepidotum</u>				208	208
<u>Ictalurus catus</u>			6	628	634
<u>Ictalurus punctatus</u>				474	474
<u>Anguilla rostrata</u>				2	2
<u>Conger oceanica</u>	1				1
<u>Urophycis chuss</u>	1				1
<u>Apeltes quadracus</u>			5		5
<u>Syngnathus fuscus</u>	2				2
<u>Fundulus majalis</u>			1		1
<u>Roccus americanus</u>		61	4,569	1,098	5,728
<u>Roccus saxatilis</u>	2	23	157		182
<u>Etheostoma nigrum</u>				6	6
<u>Cynoscion regalis</u>		1			1
<u>Leiostomus xanthurus</u>		1			1
<u>Micropogon undulatus</u>	2	11	52		65
<u>Mugil cephalus</u>		2	1		3
<u>Menidia menidia</u>	167	1,064	5		1,236
<u>Etropus microstomus</u>	2	2			4
<u>Paralichthys dentatus</u>	1				1
<u>Trinectes maculatus</u>		46	297	710	1,053
Total					11,682

April - 1959

	1-4	5-8	9-12	13-16	Total
<u>Squalus acanthias</u>	1				1
<u>Alosa aestivalis</u>	26		12	4	42
<u>Alosa pseudoharengus</u>		22	38	2	62
<u>Alosa sapidissima</u>	1		1		2
<u>Brevoortia tyrannus</u>			1		1
<u>Clupea harengus</u>	1				1
<u>Anchoa mitchilli</u>	262	40	7		309
<u>Notropis hudsonius</u>				13	13
<u>Ictalurus catus</u>			76	53	129
<u>Ictalurus punctatus</u>				5	5
<u>Anguilla rostrata</u>		5	7	2	14
<u>Merluccius bilinearis</u>	5				5
<u>Urophycis regius</u>		16	57		73
<u>Roccus americanus</u>		2	243	79	324
<u>Roccus saxatilis</u>		1	7	2	10
<u>Bairdiella chrysura</u>		4			4
<u>Menidia menidia</u>	1				1
<u>Trinectes maculatus</u>		29	2,349	-	2,378
Total					3,374

June - 1959

<u>Lepisosteus osseus</u>				2	2
<u>Alosa aestivalis</u>			2	174	176
<u>Alosa pseudoharengus</u>			12	336	348
<u>Alosa sapidissima</u>				24	24
<u>Brevoortia tyrannus</u>			1	14	15
<u>Anchoa hepsetus</u>	15	6			21
<u>Anchoa mitchilli</u>	3	155	134	1,166	1,458
<u>Hybognathus nuchalis</u>				8	8
<u>Notropis hudsonius</u>				10	10
<u>Moxostoma macrolepidotum</u>				8	8
<u>Ictalurus catus</u>			62	290	352
<u>Ictalurus punctatus</u>				4	4
<u>Anguilla rostrata</u>		5	6		11
<u>Merluccius bilinearis</u>		1			1
<u>Urophycis regius</u>	2	7	3		12
<u>Roccus americanus</u>			10	878	888
<u>Roccus saxatilis</u>			111	106	217
<u>Caranx latus</u>		1			1
<u>Bairdiella chrysura</u>	34	137	167	70	408
<u>Cynoscion regalis</u>	2	26	32	4	64
<u>Leiostomus xanthurus</u>	1	16	95	36	148
<u>Micropogon undulatus</u>		8	22	2	32
<u>Prionotus carolinus</u>	1		1		2

June - 1959

	1-4	5-8	9-12	13-16	Total
<u>Poronotus triacanthus</u>	13	45			58
<u>Etropus microstomus</u>	1				1
<u>Paralichthys dentatus</u>		8	1		9
<u>Trinectes maculatus</u>		34	87	180	301
<u>Symphura plagiosa</u>	1				1
<u>Opsanus tau</u>			10		10
Total					4,590

July - 1959

<u>Lepisosteus osseus</u>			5		5
<u>Alosa aestivalis</u>				112	112
<u>Alosa pseudoharengus</u>		2	14	26	42
<u>Alosa sapidissima</u>				6	6
<u>Anchoa hepsetus</u>	10				10
<u>Anchoa mitchilli</u>	55	129	36		220
<u>Notropis hudsonius</u>				10	10
<u>Moxostoma macrolepidotum</u>				2	2
<u>Ictalurus catus</u>			60	392	452
<u>Ictalurus punctatus</u>				34	34
<u>Anguilla rostrata</u>			2		2
<u>Roccus americanus</u>			42	520	562
<u>Roccus saxatilis</u>			7	24	31
<u>Selar crumenophthalmus</u>	2				2
<u>Bairdiella chrysura</u>		333	922		1,255
<u>Cynoscion regalis</u>	1	8	3		12
<u>Leiostomus xanthurus</u>		6	23	2	31
<u>Micropogon undulatus</u>		6	23	2	31
<u>Stenotomus chrysops</u>	1				1
<u>Prionotus evolans</u>		6	1		7
<u>Poronotus triacanthus</u>	270				270
<u>Paralichthys dentatus</u>		2	2		4
<u>Trinectes maculatus</u>		24	70	150	244
<u>Sphaeroides maculatus</u>		1			1
<u>Opsanus tau</u>			1		1
Total					3,347

August - 1959

<u>Lepisosteus osseus</u>				4	4
<u>Alosa aestivalis</u>				82	82
<u>Alosa pseudoharengus</u>			5	6	11
<u>Alosa sapidissima</u>				16	16
<u>Brevoortia tyrannus</u>		1			1

August - 1959

	1-4	5-8	9-12	13-16	Total
<u>Anchoa hepsetus</u>	43	55			98
<u>Anchoa mitchilli</u>	146	801	33	70	1,050
<u>Notropis hudsonius</u>				10	10
<u>Moxostoma macrolepidotum</u>				2	2
<u>Ictalurus catus</u>			96	236	332
<u>Ictalurus punctatus</u>				50	50
<u>Anguilla rostrata</u>			2		2
<u>Pomatomus saltatrix</u>	1				1
<u>Roccus americanus</u>			4	422	426
<u>Roccus saxatilis</u>			3	4	7
<u>Centropristes striatus</u>	1				1
<u>Bairdiella chrysura</u>	29	193	171	322	715
<u>Cynoscion regalis</u>	10	17	46	20	93
<u>Leiostomus xanthurus</u>	6	43	52		101
<u>Micropogon undulatus</u>			1	2	3
<u>Peprilus alepidotus</u>		13	14		27
<u>Poronotus triacanthus</u>	87	113			200
<u>Paralichthys dentatus</u>		1	3		4
<u>Trinectes maculatus</u>	1	21	94	104	220
<u>Opsanus tau</u>		1			1
Total					3,457

September - 1959

<u>Lepisosteus osseus</u>				4	4
<u>Alosa aestivalis</u>				2	2
<u>Alosa mediocris</u>		1			1
<u>Alosa pseudoharengus</u>		2	32	10	44
<u>Alosa sapidissima</u>				190	190
<u>Brevoortia tyrannus</u>	1		1		2
<u>Anchoa hepsetus</u>	530	123			653
<u>Anchoa mitchilli</u>	379	821	151	126	1,477
<u>Ictalurus catus</u>			72	216	288
<u>Ictalurus punctatus</u>				4	4
<u>Anguilla rostrata</u>			5	2	7
<u>Roccus americanus</u>			8	130	138
<u>Roccus saxatilis</u>				4	4
<u>Selar crumenophthalmus</u>	9				9
<u>Bairdiella chrysura</u>	354	331	513	158	1,356
<u>Cynoscion regalis</u>	314	247	304	62	927
<u>Leiostomus xanthurus</u>	23	31	25	2	81
<u>Menticirrhus americanus</u>		3	4		7
<u>Micropogon undulatus</u>				2	2
<u>Prionotus carolinus</u>	1				1
<u>Sphyraena borealis</u>	2				2

September - 1959

	1-4	5-8	9-12	13-16	Total
<u>Peprilus alepidotus</u>		35	3		38
<u>Poronotus triacanthus</u>	348	11			359
<u>Etropus microstomus</u>	1				1
<u>Paralichthys dentatus</u>	1	1	1		3
<u>Trinectes maculatus</u>	1	42	200	162	405
<u>Sphaeroides maculatus</u>		1			1
<u>Opsanus tau</u>		4	2		6
Total					6,012

October - 1959

<u>Carcharinus milberti</u>		1			1
<u>Dasyatis sayi</u>		1			1
<u>Gymura altavela</u>	1				1
<u>Rhinoptera bonasus</u>	1				1
<u>Alosa aestivalis</u>				12	12
<u>Alosa pseudoharengus</u>			8	38	46
<u>Alosa sapidissima</u>			1	60	61
<u>Anchoa hepsetus</u>	197	12			209
<u>Anchoa mitchilli</u>	1,494	2,142	276	36	3,948
<u>Hybognathus nuchalis</u>				2	2
<u>Notropis hudsonius</u>				8	8
<u>Ictalurus catus</u>			134	168	302
<u>Ictalurus punctatus</u>				44	44
<u>Noturus insignis</u>				2	2
<u>Anguilla rostrata</u>			14	6	20
<u>Syngnathus fuscus</u>			1		1
<u>Roccus americanus</u>			16	730	746
<u>Roccus saxatilis</u>			2	2	4
<u>Vomer setapinnis</u>		2			2
<u>Bairdiella chrysura</u>	39	967	129	84	1,219
<u>Cynoscion regalis</u>	40	198	99	10	347
<u>Leiostomus xanthurus</u>	3	7	37	2	49
<u>Menticirrhus americanus</u>			21		21
<u>Micropogon undulatus</u>		1	73	364	438
<u>Chaetodipterus faber</u>			1		1
<u>Scomberomorus maculatus</u>	1				1
<u>Peprilus alepidotus</u>		36			36
<u>Poronotus triacanthus</u>	72	21	1		94
<u>Paralichthys dentatus</u>		3			3
<u>Trinectes maculatus</u>		9	1,115	968	2,092
<u>Sphaeroides maculatus</u>		1			1
<u>Opsanus tau</u>		2	1		3
Total					9,716

November - 1959

	1-4	5-8	9-12	13-16	Total
<u>Alosa aestivalis</u>				28	28
<u>Alosa pseudoharengus</u>		1	79		80
<u>Alosa sapidissima</u>		4	18	2	24
<u>Anchoa mitchilli</u>	1,680	475	546	2	2,703
<u>Notropis hudsonius</u>				100	100
<u>Moxostoma macrolepidotum</u>				6	6
<u>Ictalurus catus</u>				400	400
<u>Ictalurus punctatus</u>				188	188
<u>Noturus insignis</u>				32	32
<u>Anguilla rostrata</u>			2	12	14
<u>Roccus americanus</u>		4	122	104	230
<u>Roccus saxatilis</u>			15		15
<u>Etheostoma nigrum</u>				4	4
<u>Bairdiella chrysura</u>	13	1	6		20
<u>Cynoscion regalis</u>	3				3
<u>Leiostomus xanthurus</u>	2				2
<u>Menticirrhus americanus</u>	1	1			2
<u>Micropogon undulatus</u>	1		18	2	21
<u>Prionotus carolinus</u>	1				1
<u>Poronotus triacanthus</u>	2				2
<u>Menidia beryllina</u>	1				1
<u>Etropus microstomus</u>	3				3
<u>Paralichthys dentatus</u>		3	3		6
<u>Trinectes maculatus</u>		7	234	4,854	5,095
<u>Opsanus tau</u>		1	2		3
Total					8,983